

FIG. 1

100

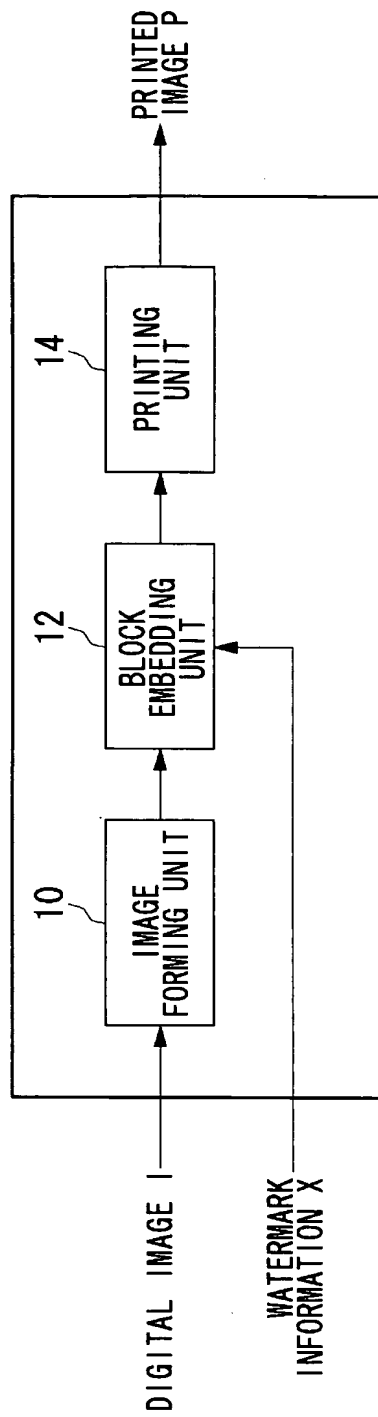


FIG.2A

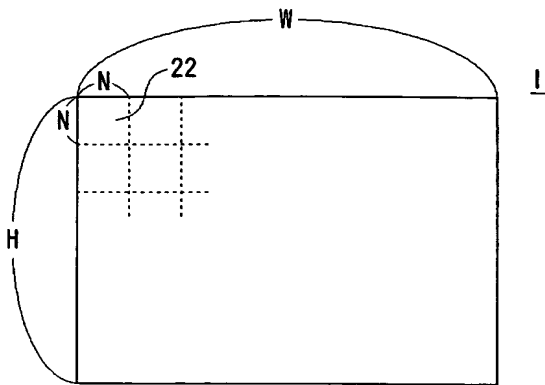


FIG.2B

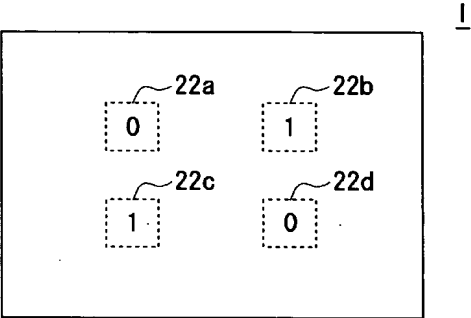


FIG.2C

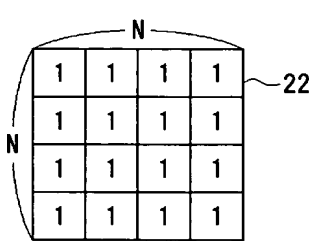


FIG.2D

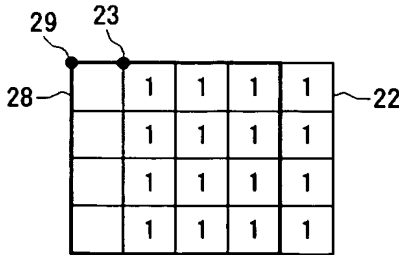


FIG.3

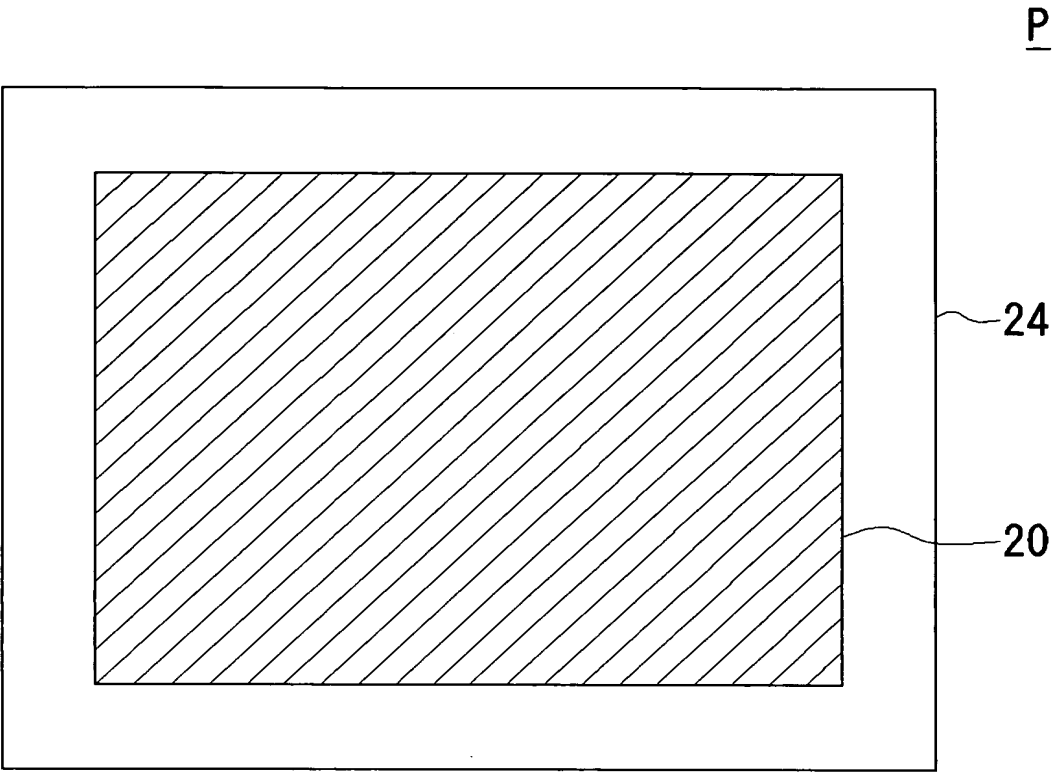


FIG.4

200

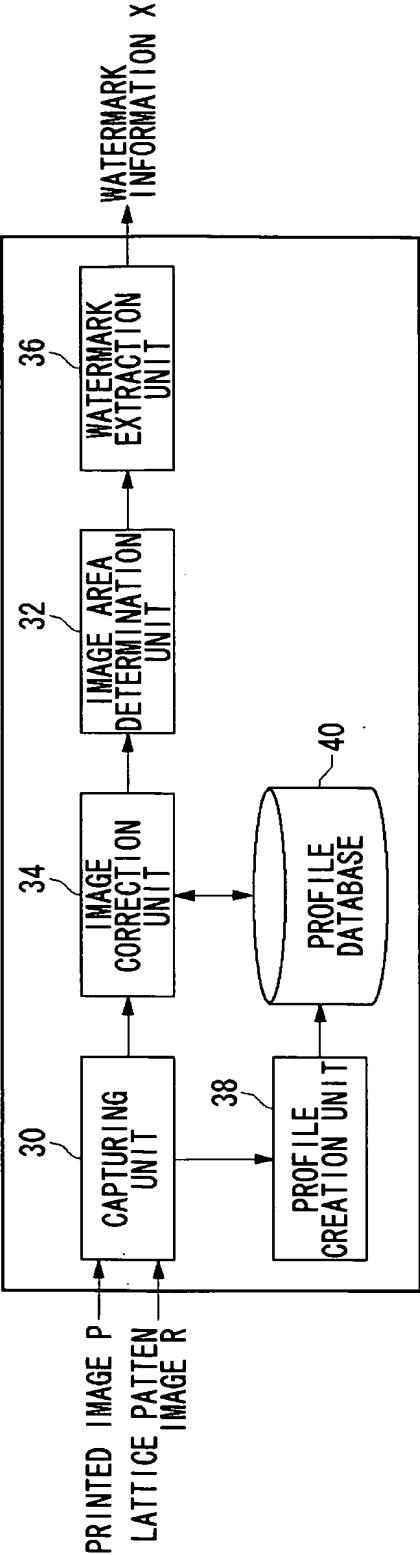


FIG.5

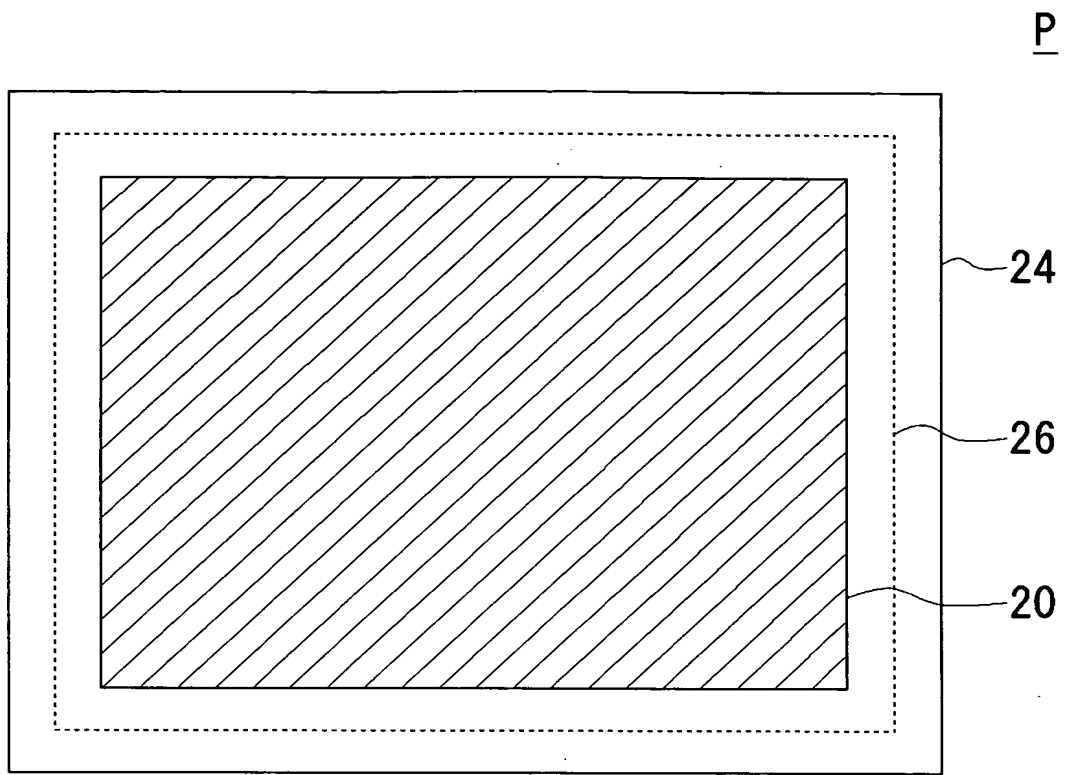


FIG. 6

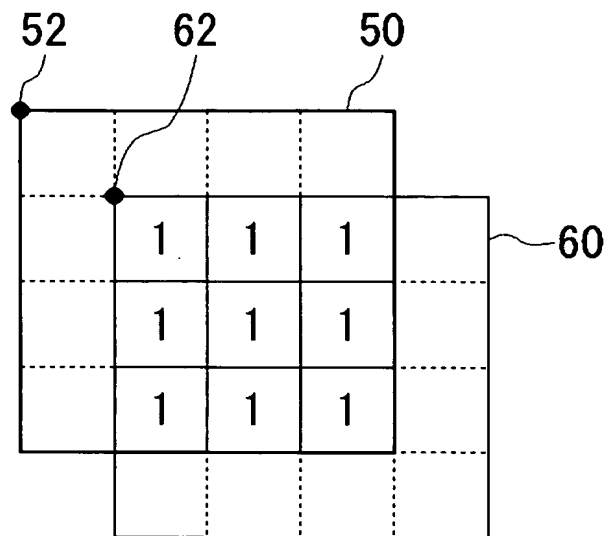
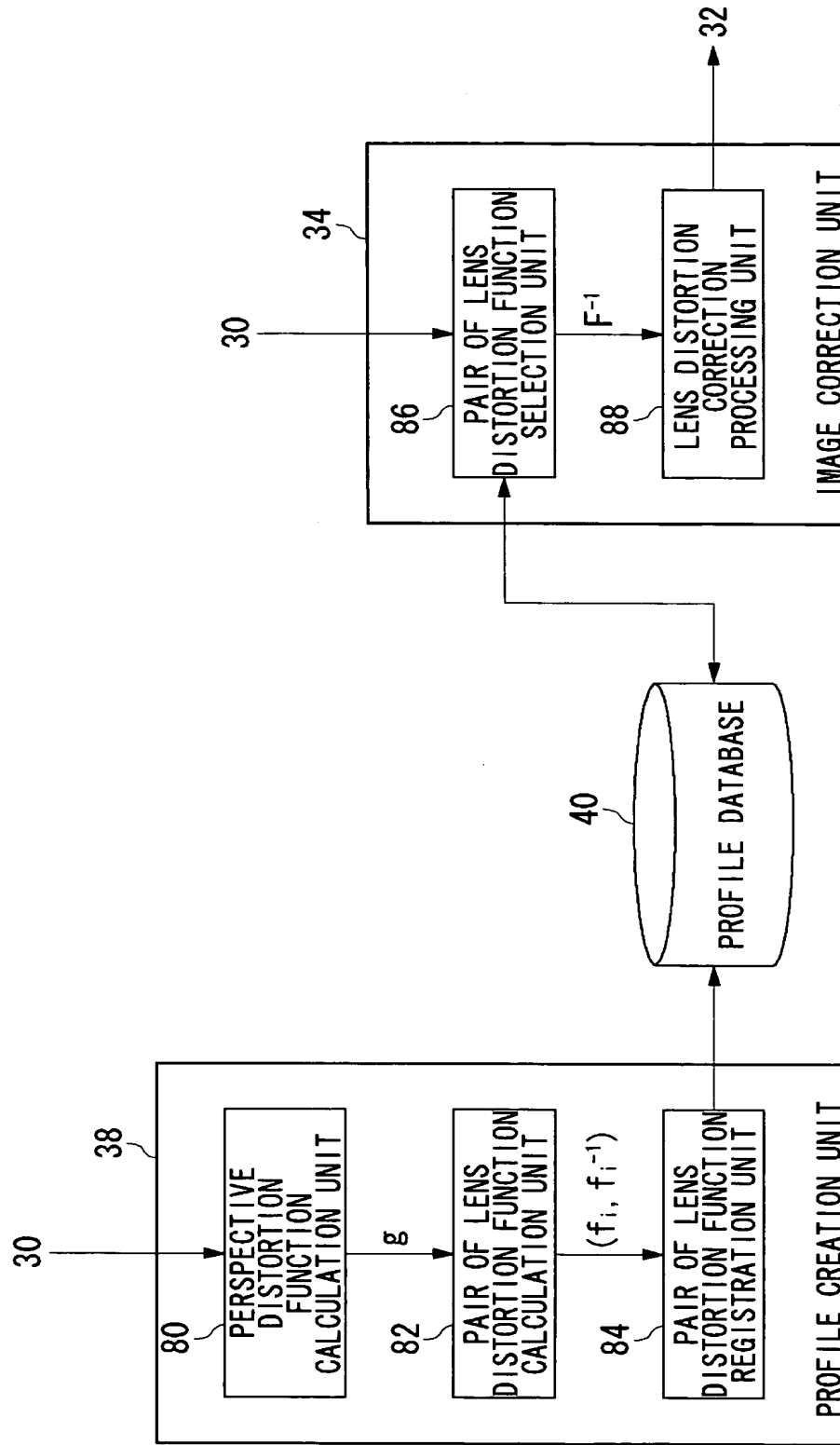


FIG.7

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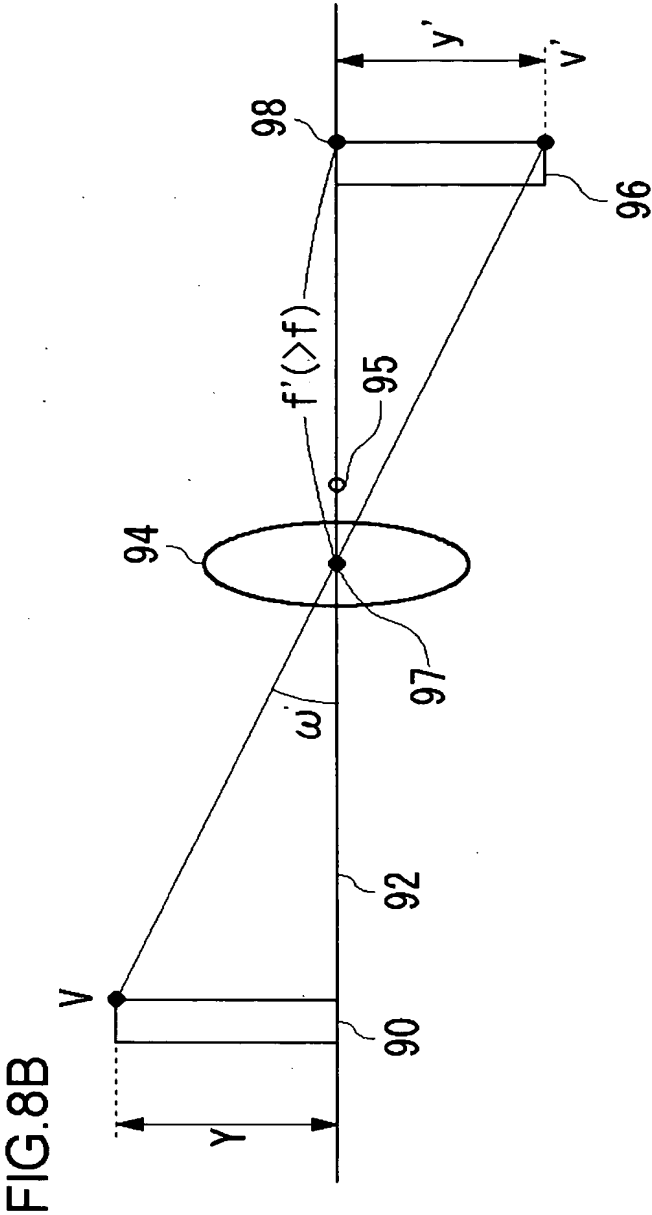
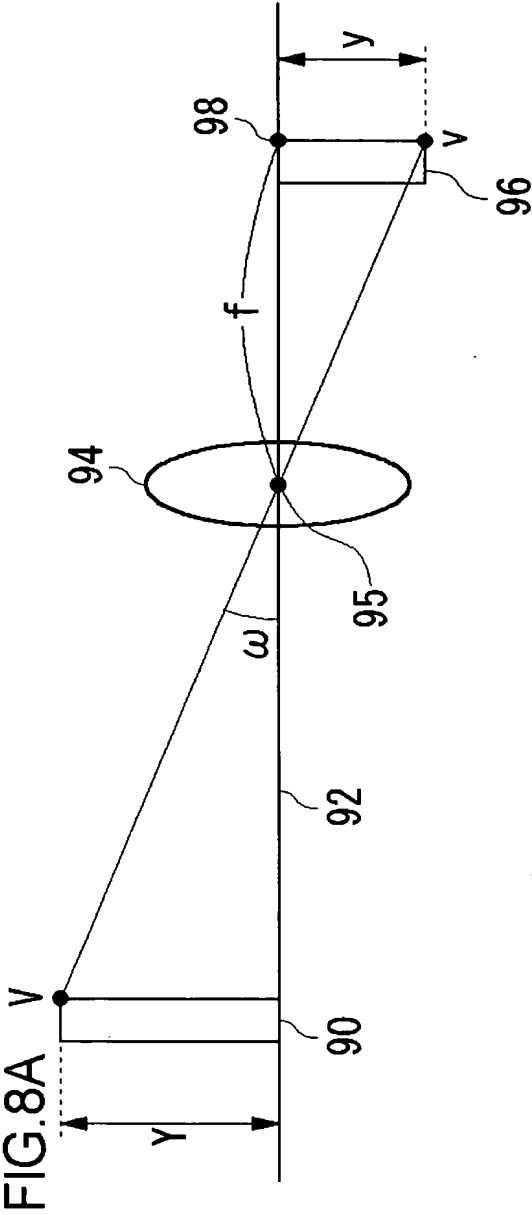


FIG.9A 42

MODEL NAME	PAIR OF LENS DISTORTION FUNCTION
A	(f_A, f_A^{-1})
B	(f_B, f_B^{-1})
\vdots	\vdots

FIG.9B 44

MODEL NAME	CCD DIAGONAL LENGTH	POINTER
A	d_A	●
B	d_B	
\vdots	\vdots	\vdots

LABEL	ANGLE OF VIEW	LENS DISTORTION FUNCTION PAIR
\vdots	\vdots	\vdots
i	θ_i	(f_i, f_i^{-1})
i+1	θ_{i+1}	(f_{i+1}, f_{i+1}^{-1})
i+2	θ_{i+2}	(f_{i+2}, f_{i+2}^{-1})
\vdots	\vdots	\vdots

FIG.10

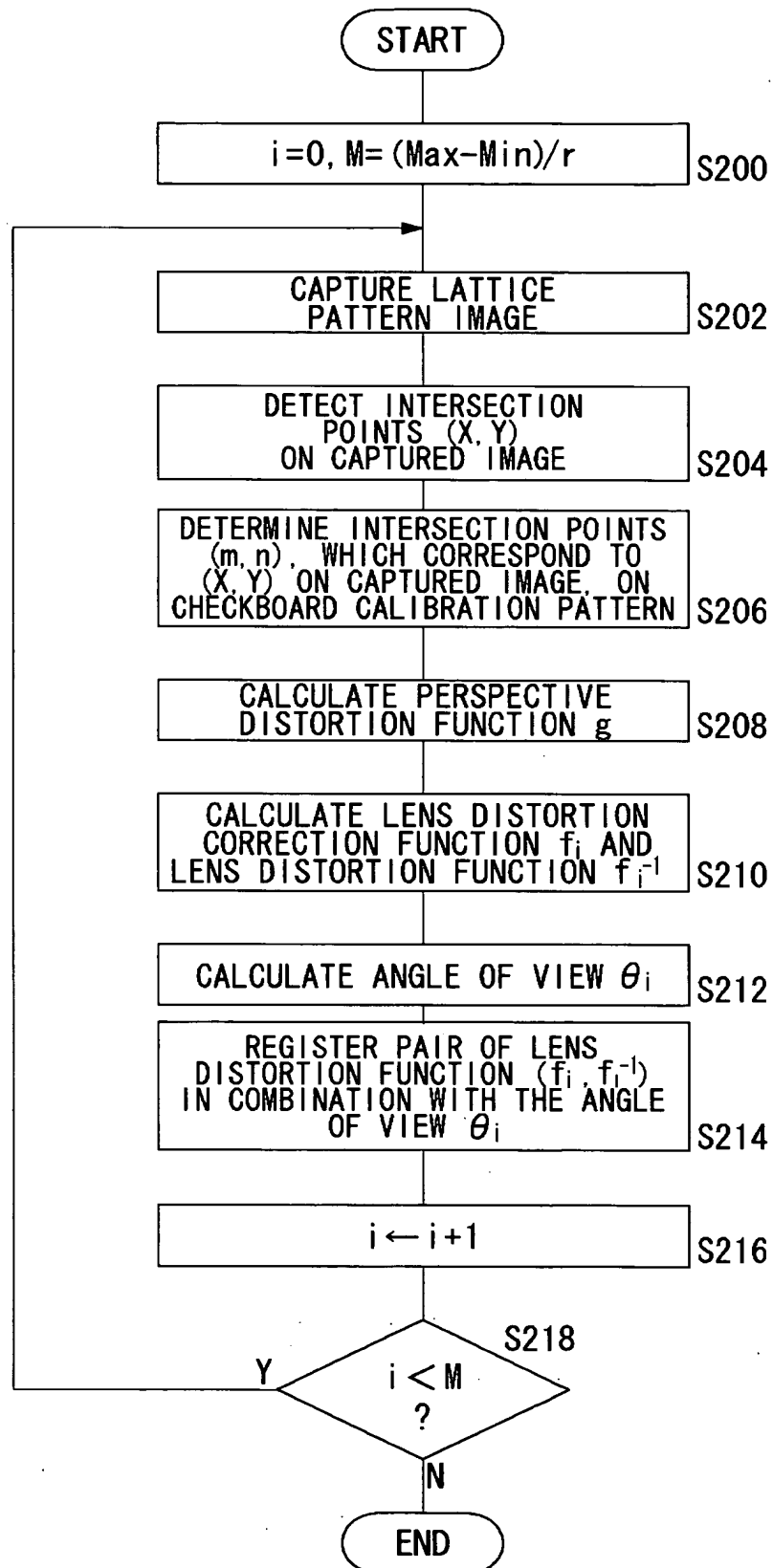


FIG.11

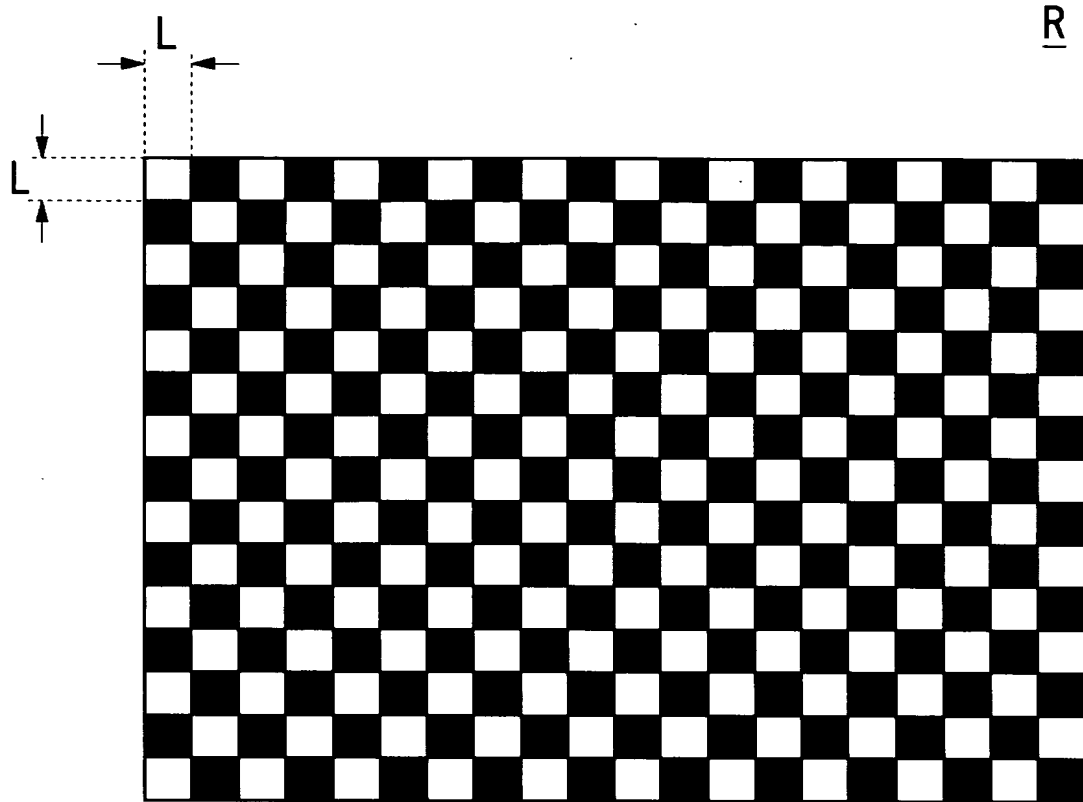


FIG.12

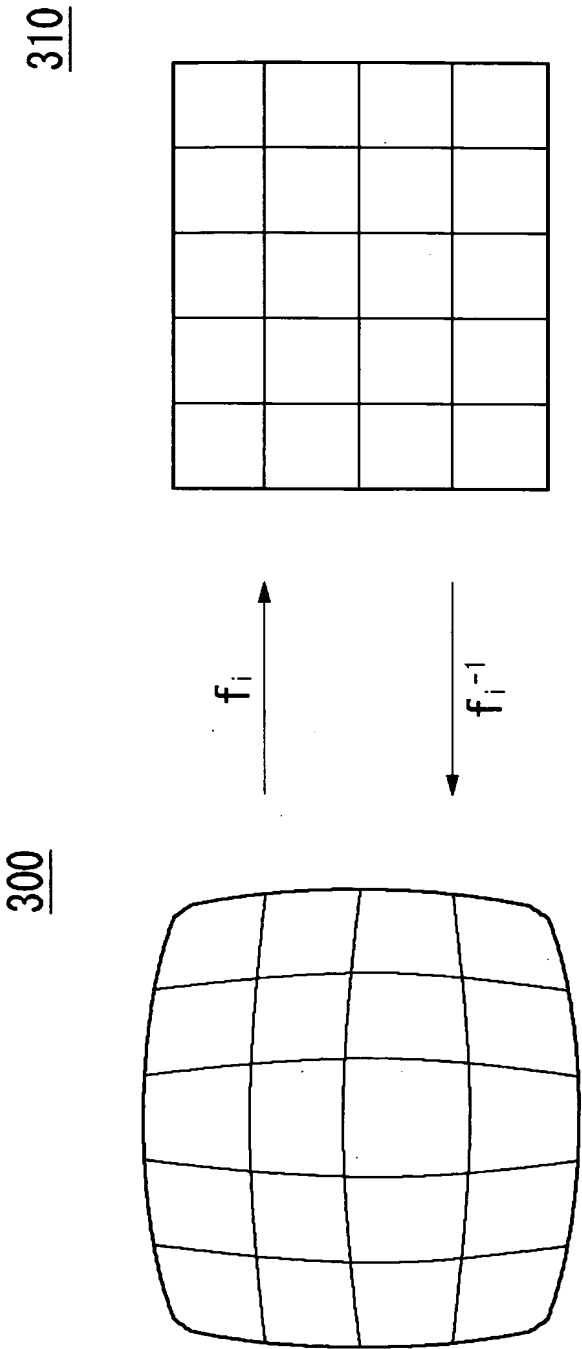


FIG.13

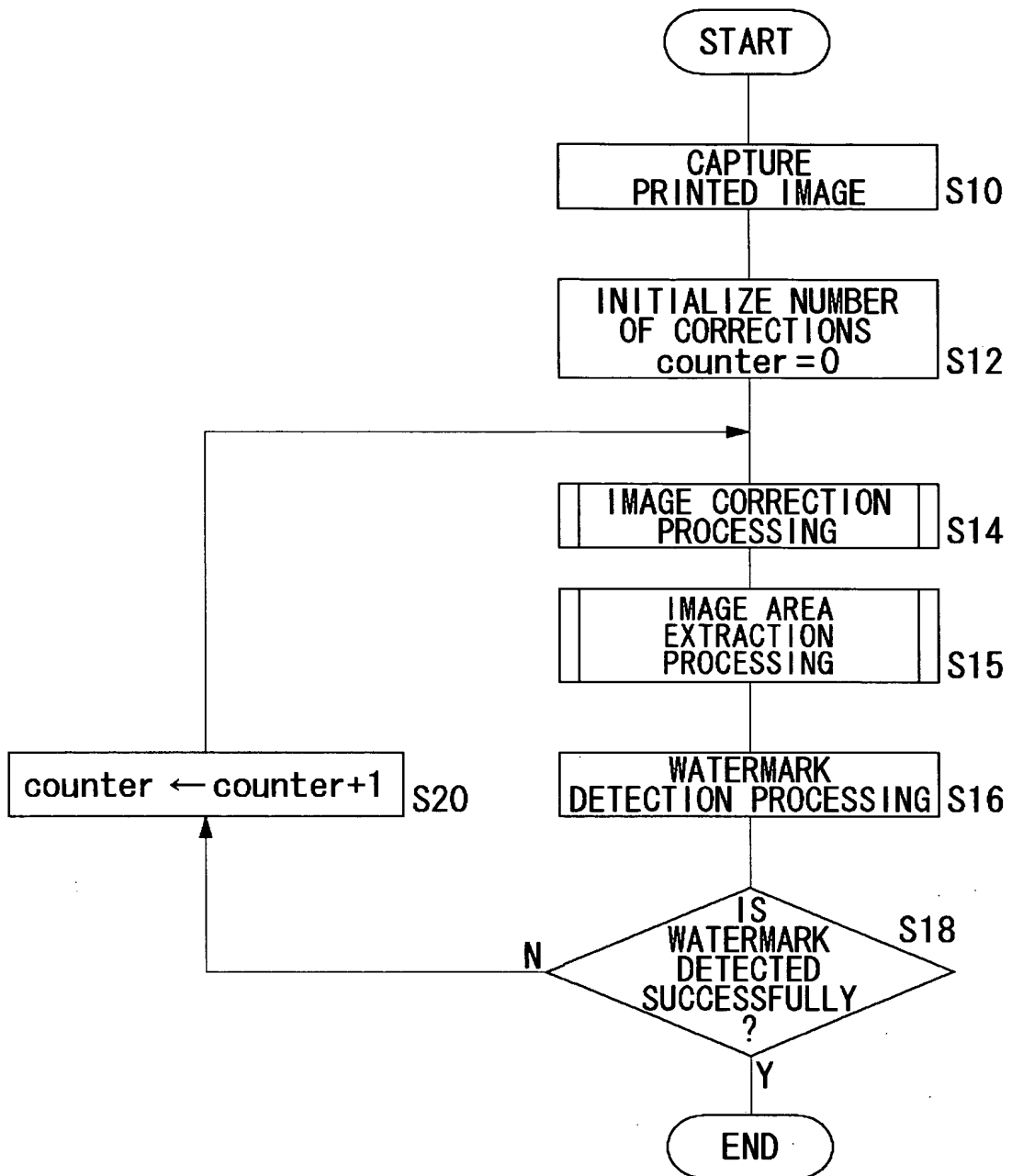


FIG.14

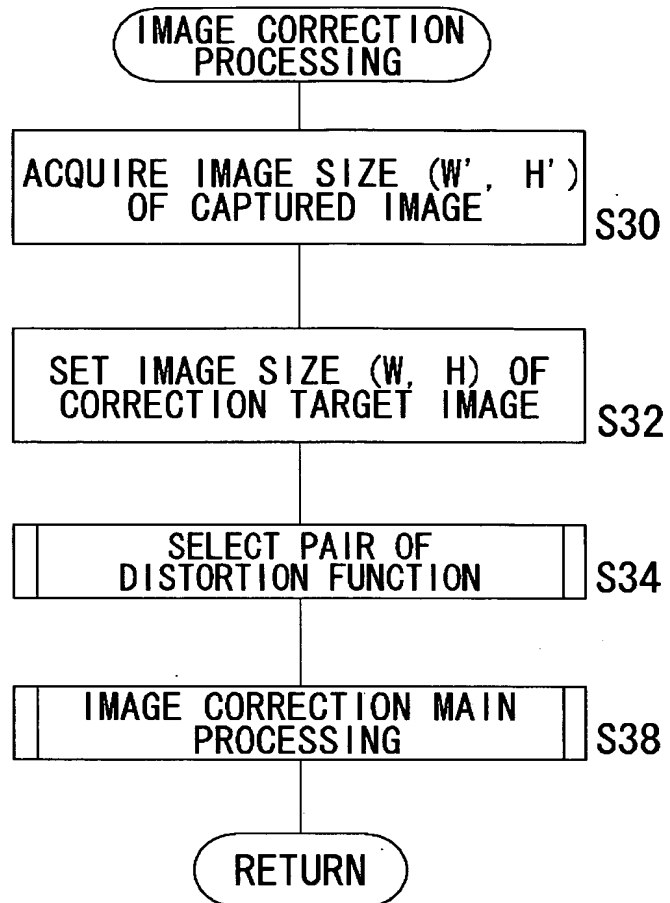
S14

FIG.15

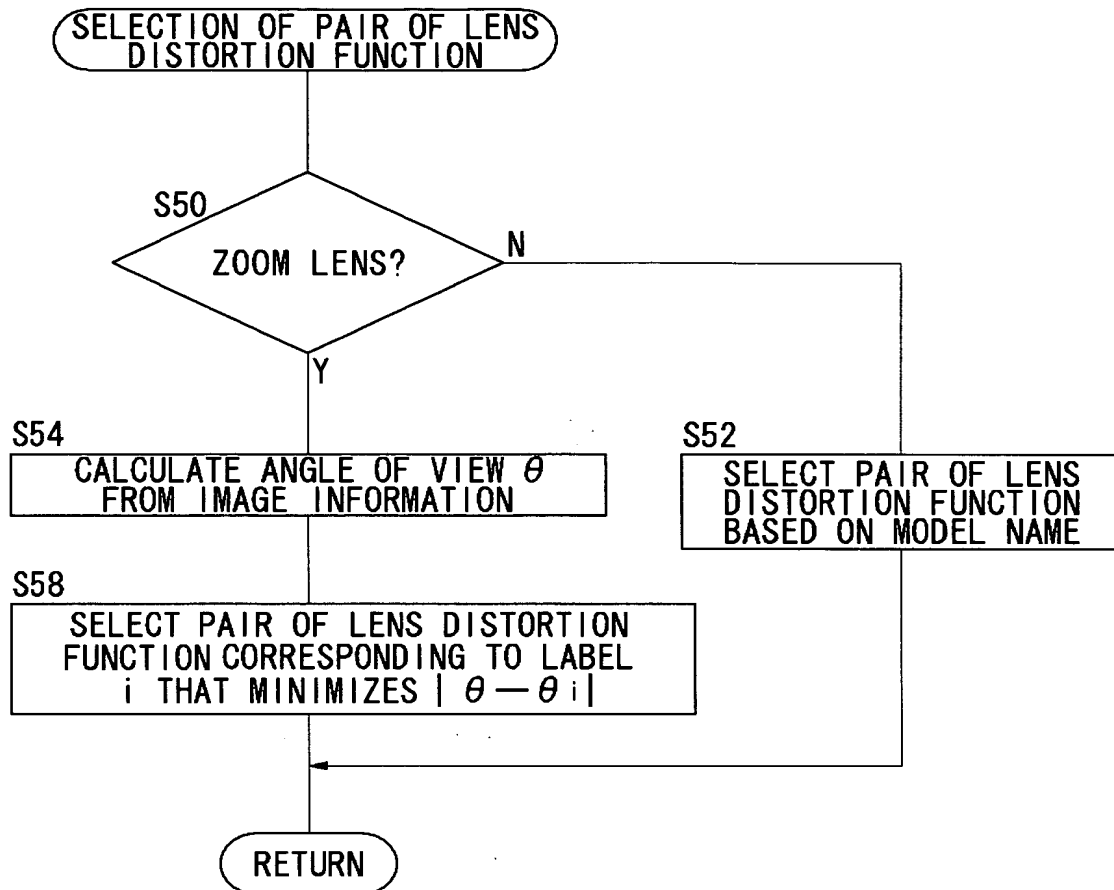
S34

FIG.16

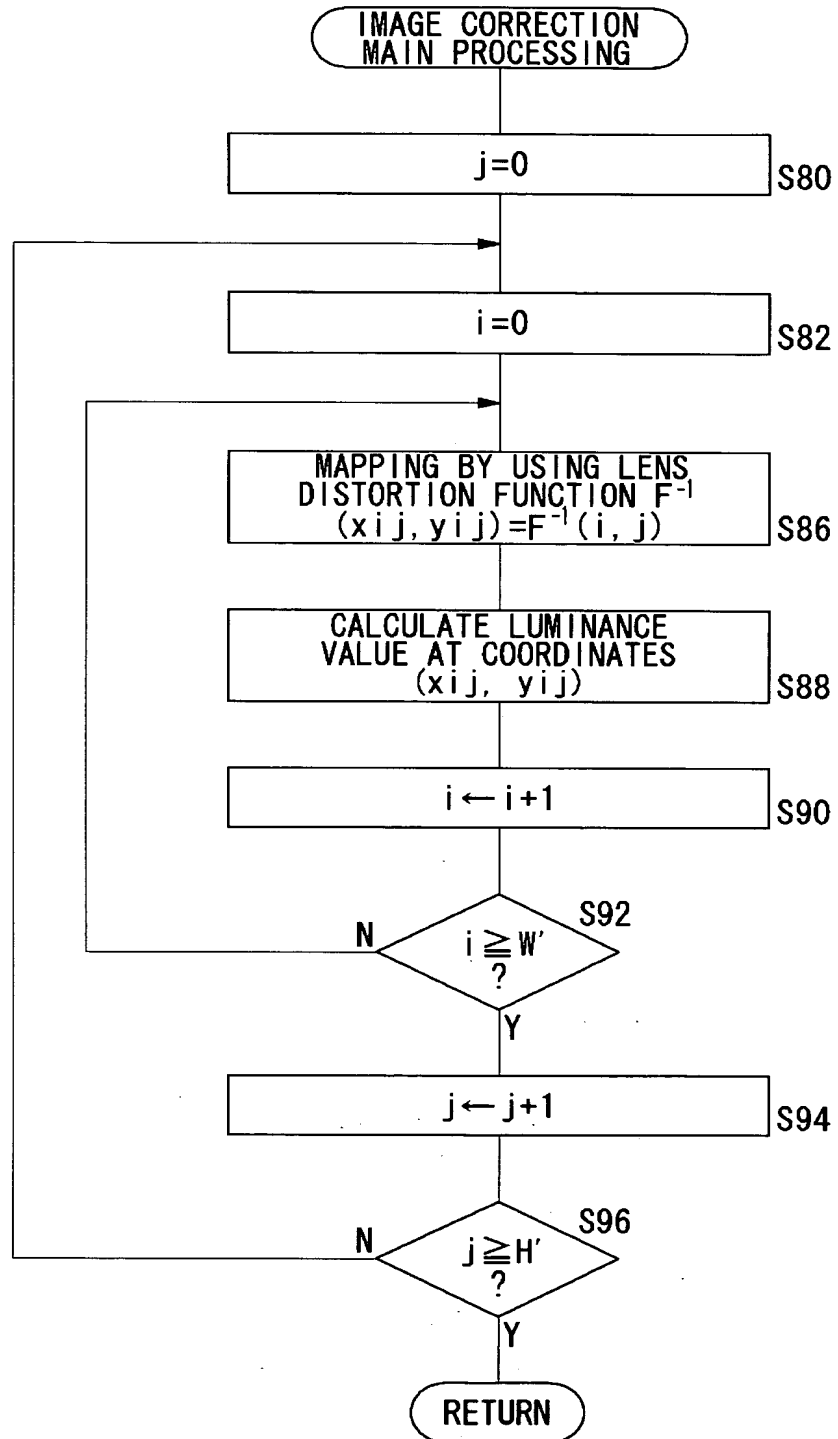
S38

FIG.17

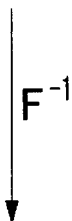
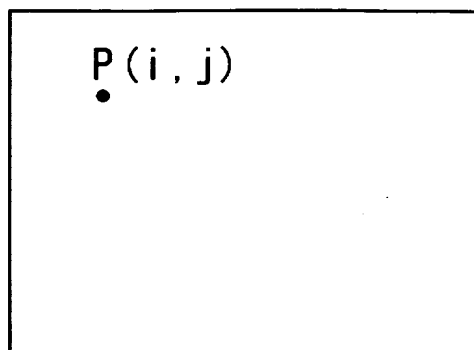
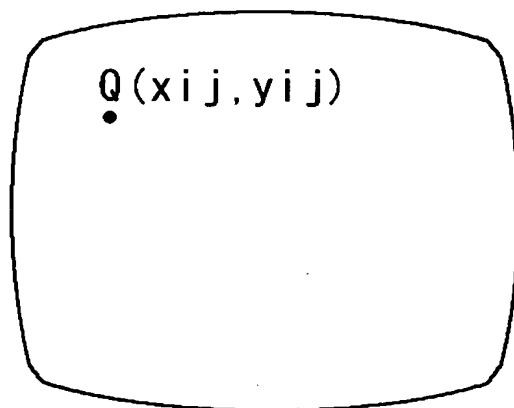
320340

FIG.18

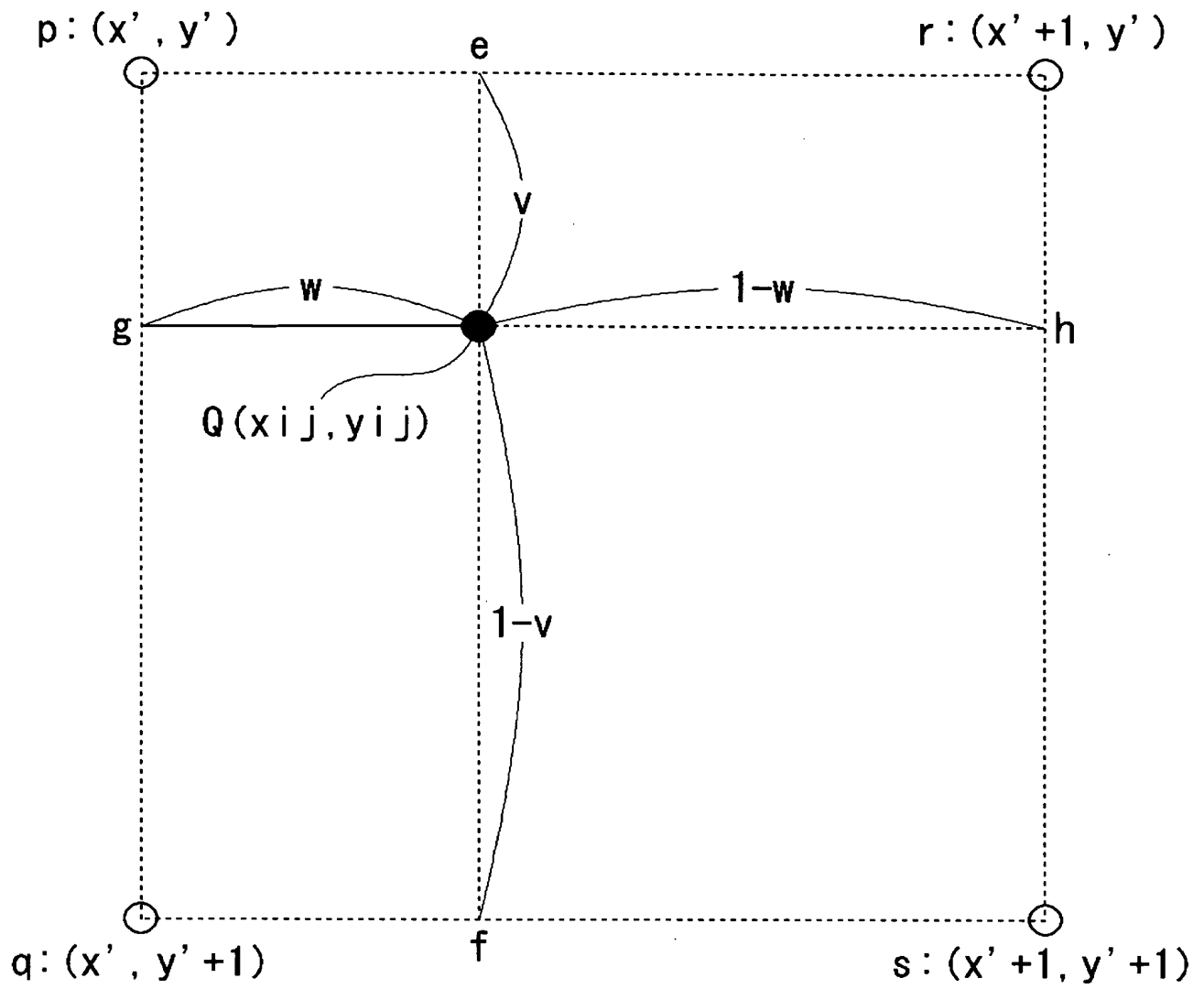


FIG.19

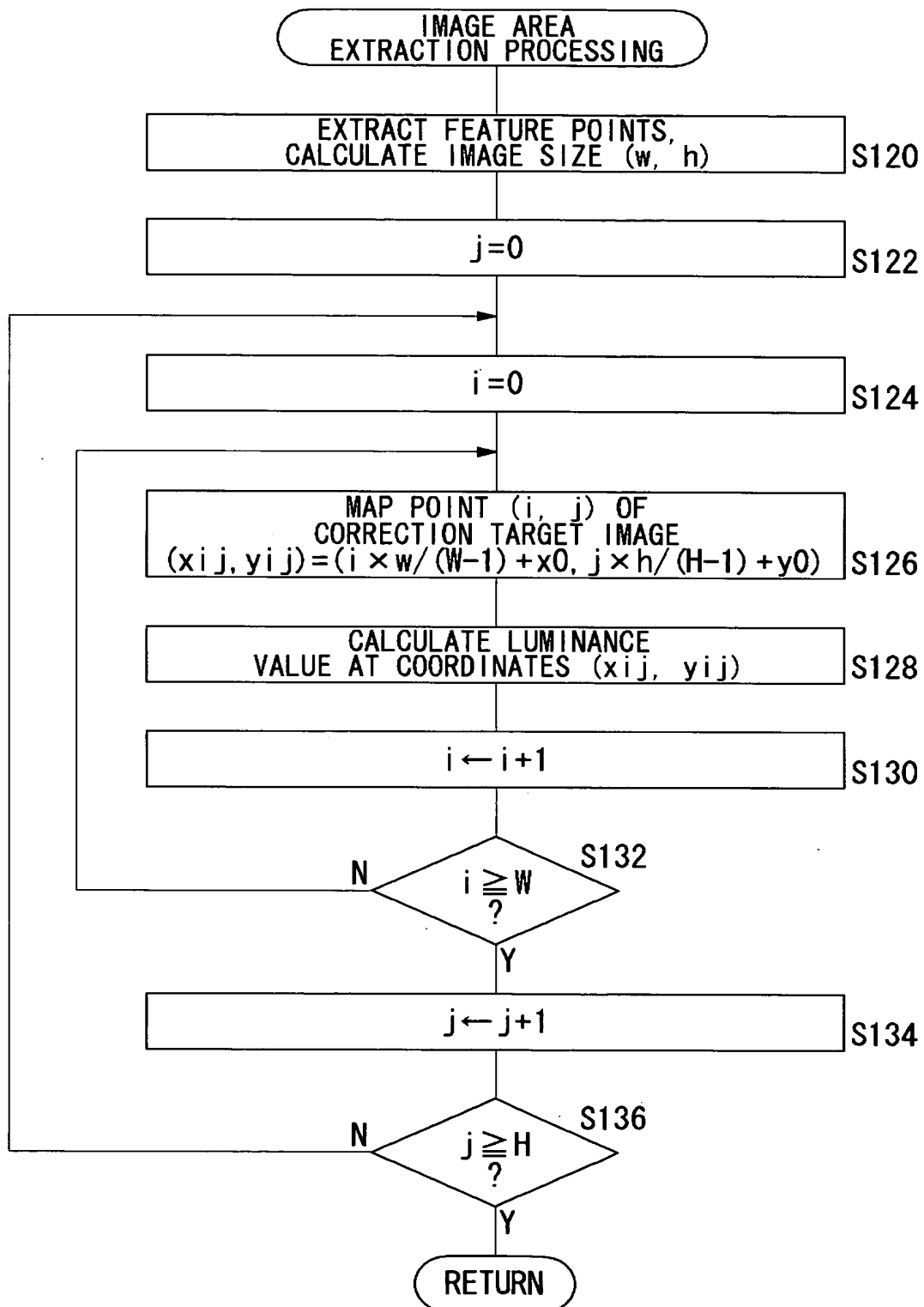
S15

FIG.20

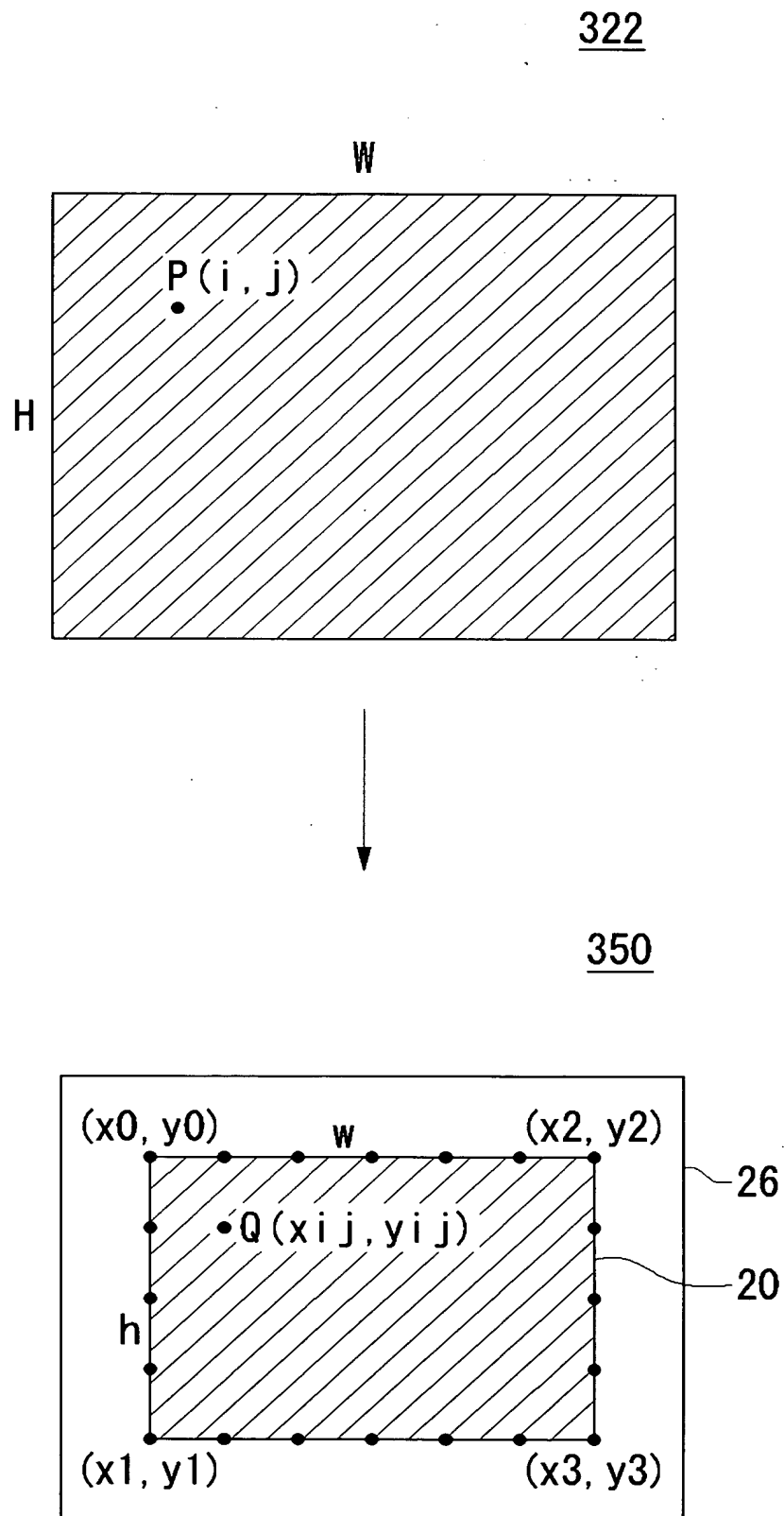


FIG.21

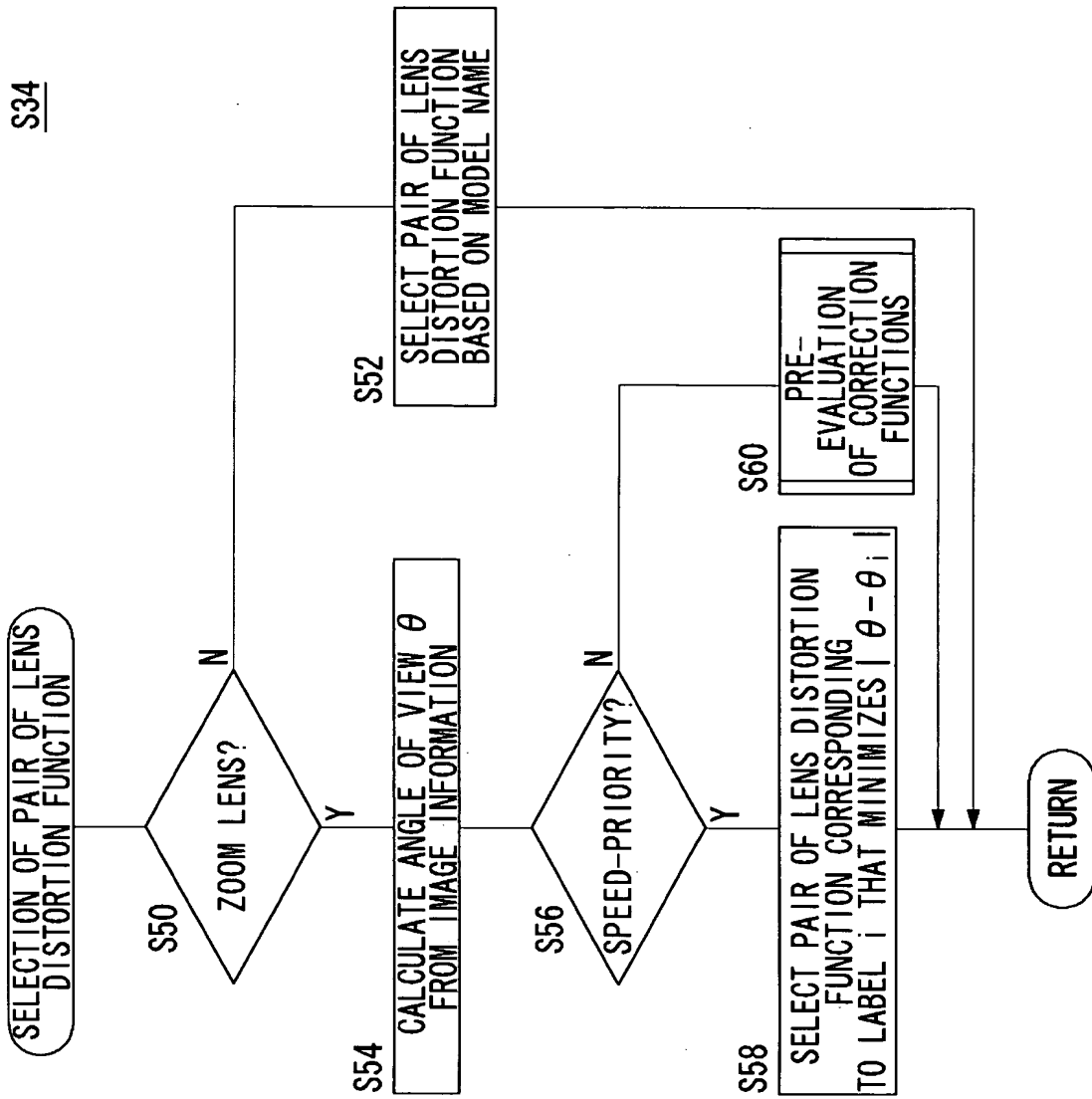


FIG.22

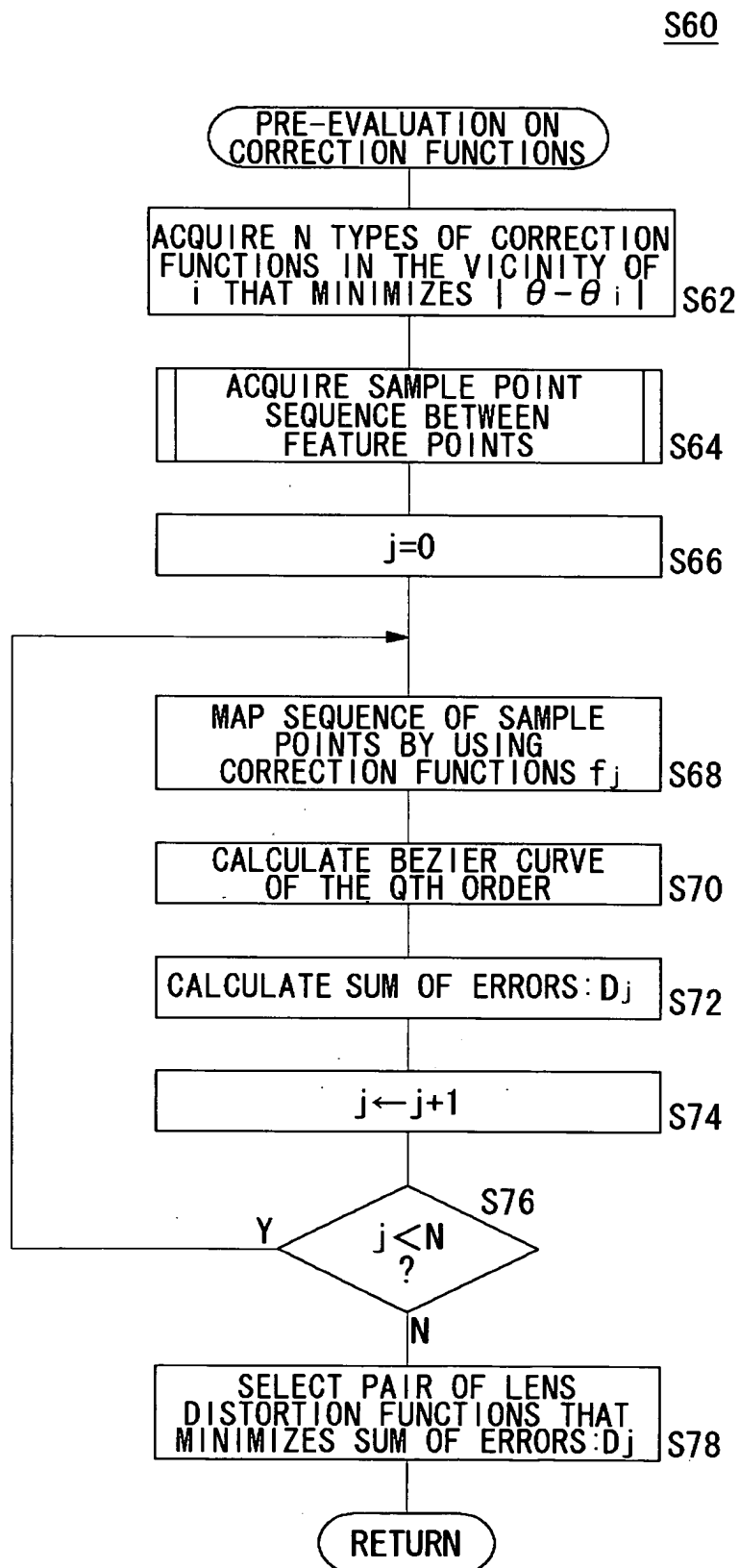


FIG.23A

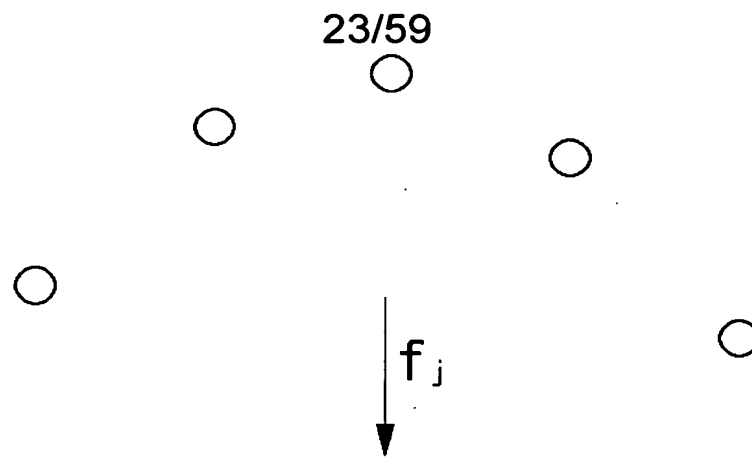


FIG.23B

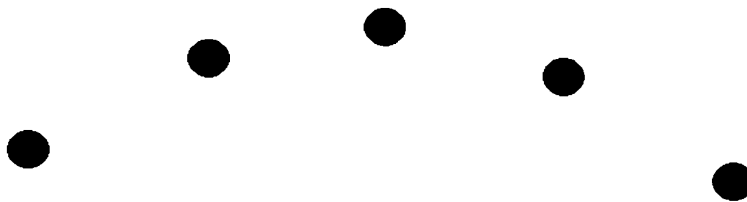


FIG.23C

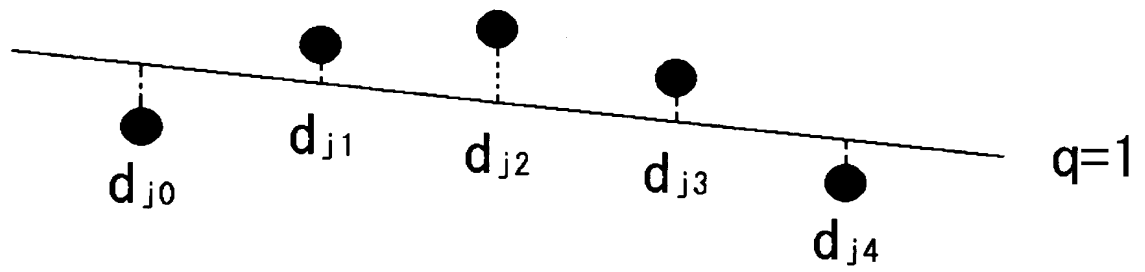


FIG.24

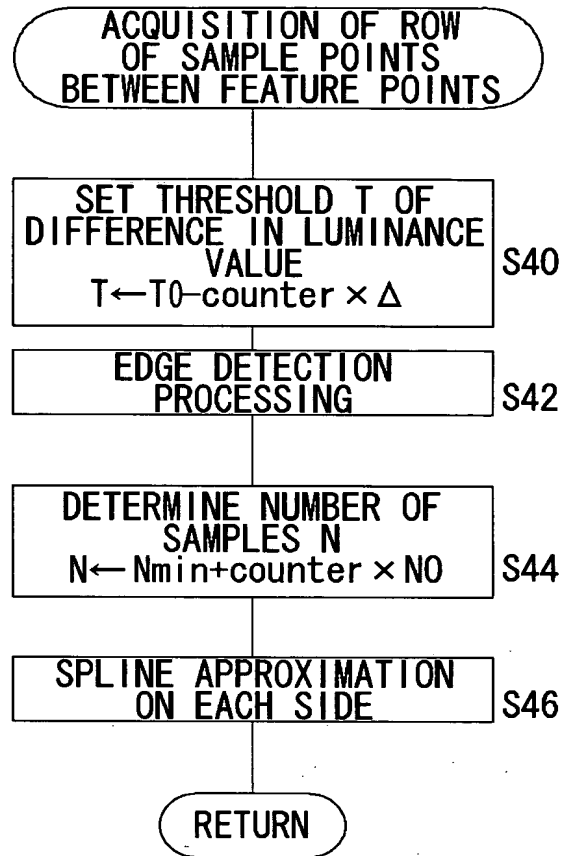
S64

FIG.25A

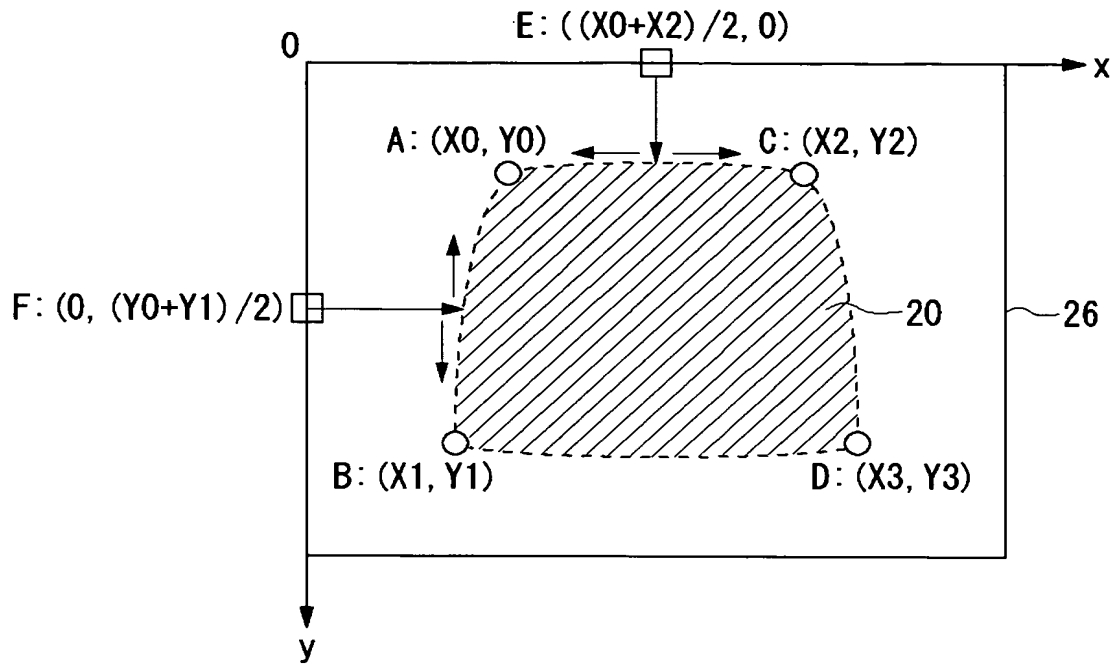


FIG.25B

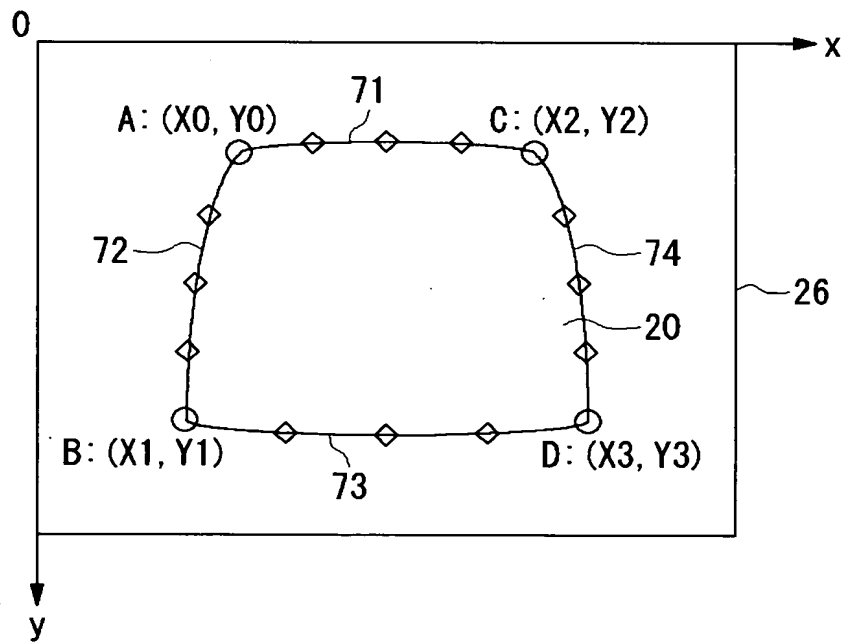


FIG.26

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200

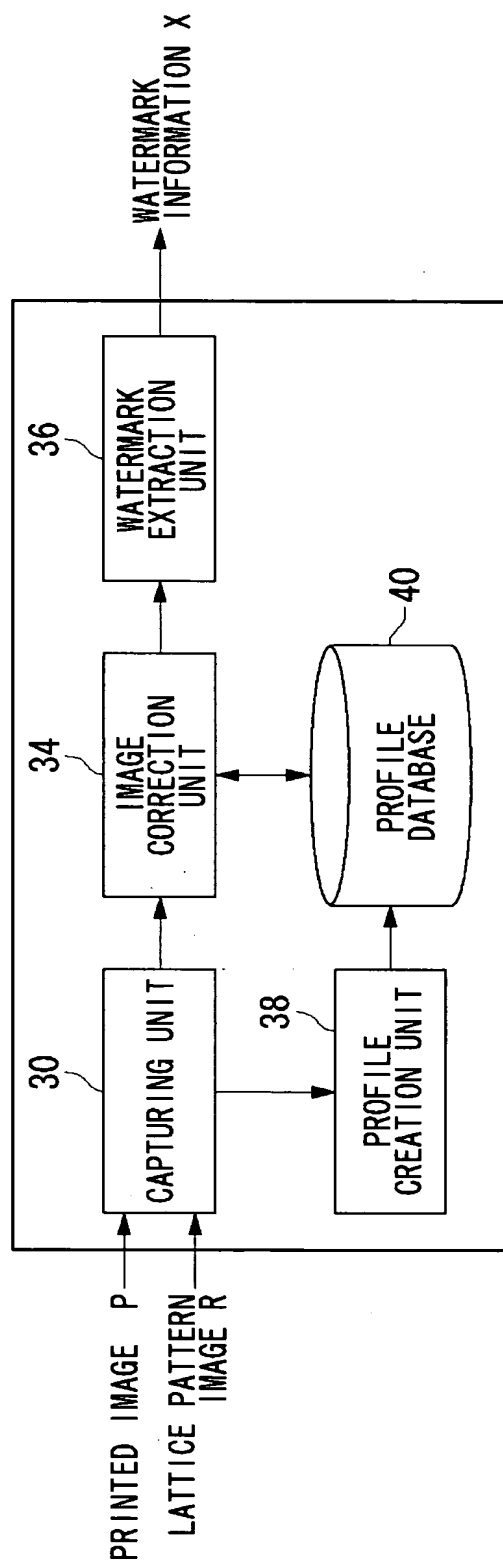


FIG.27

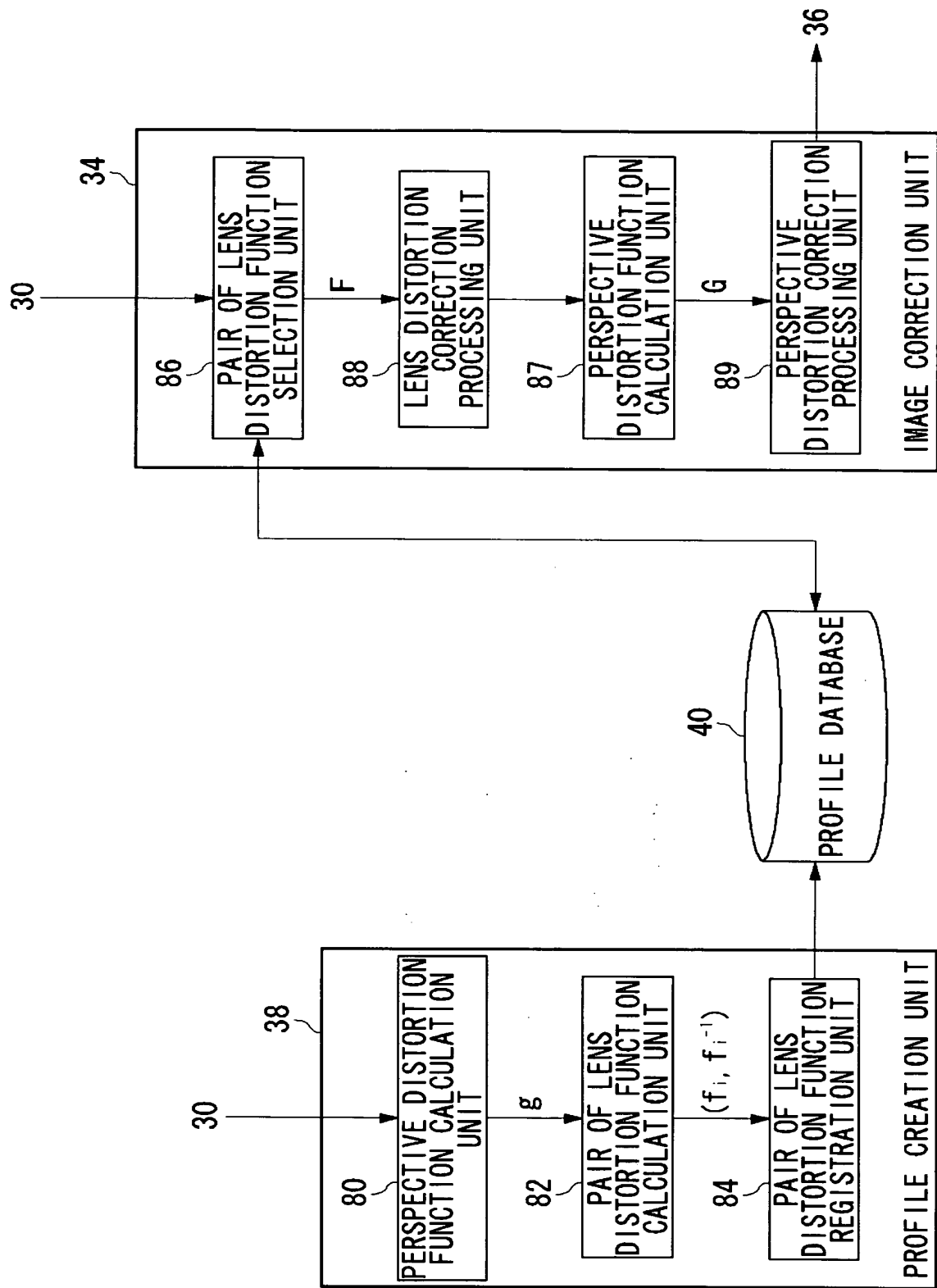


FIG.28

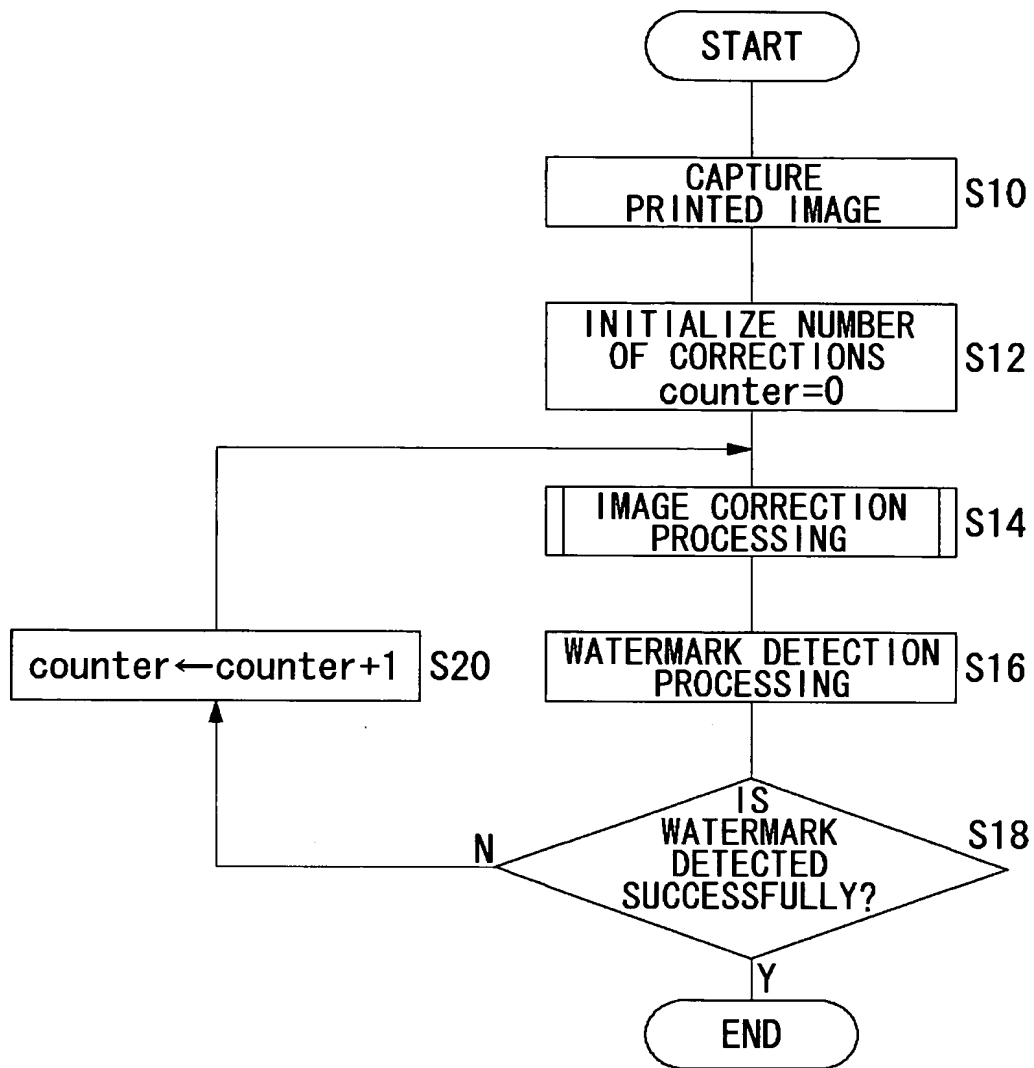


FIG.29

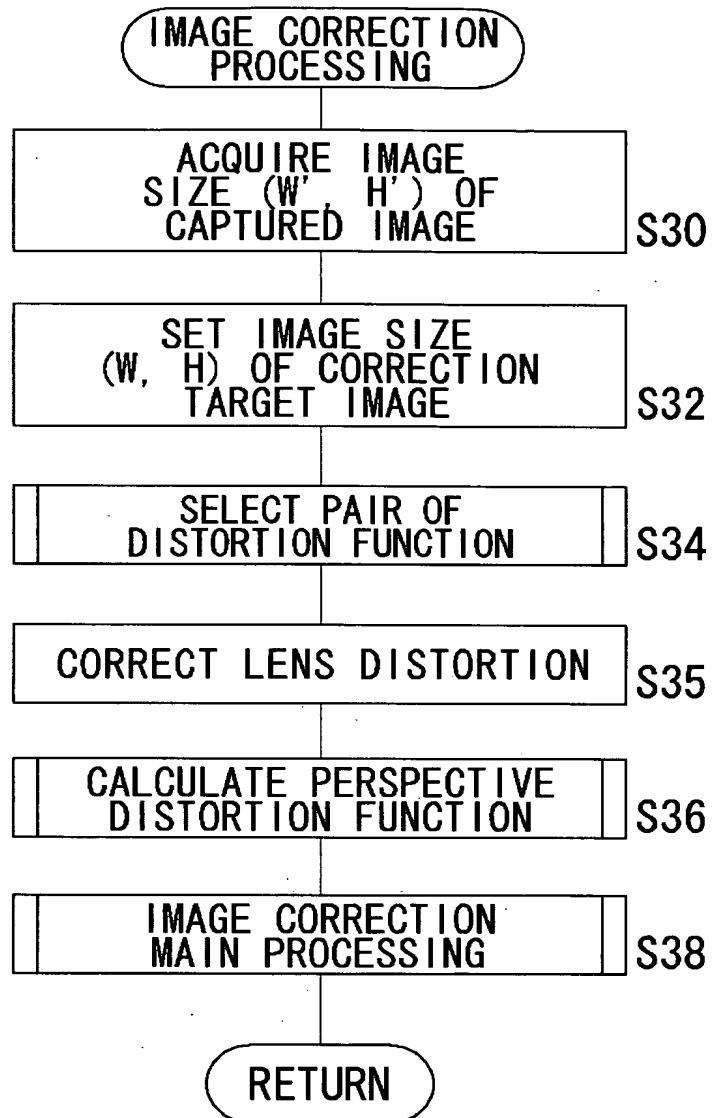
S14

FIG.30

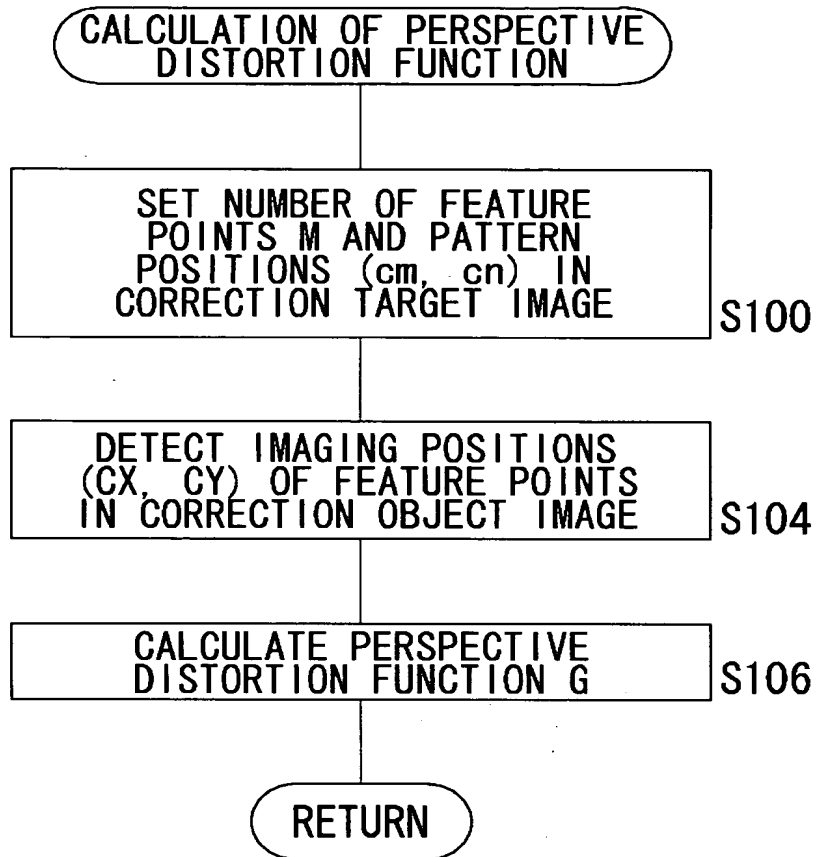
S36

FIG.31

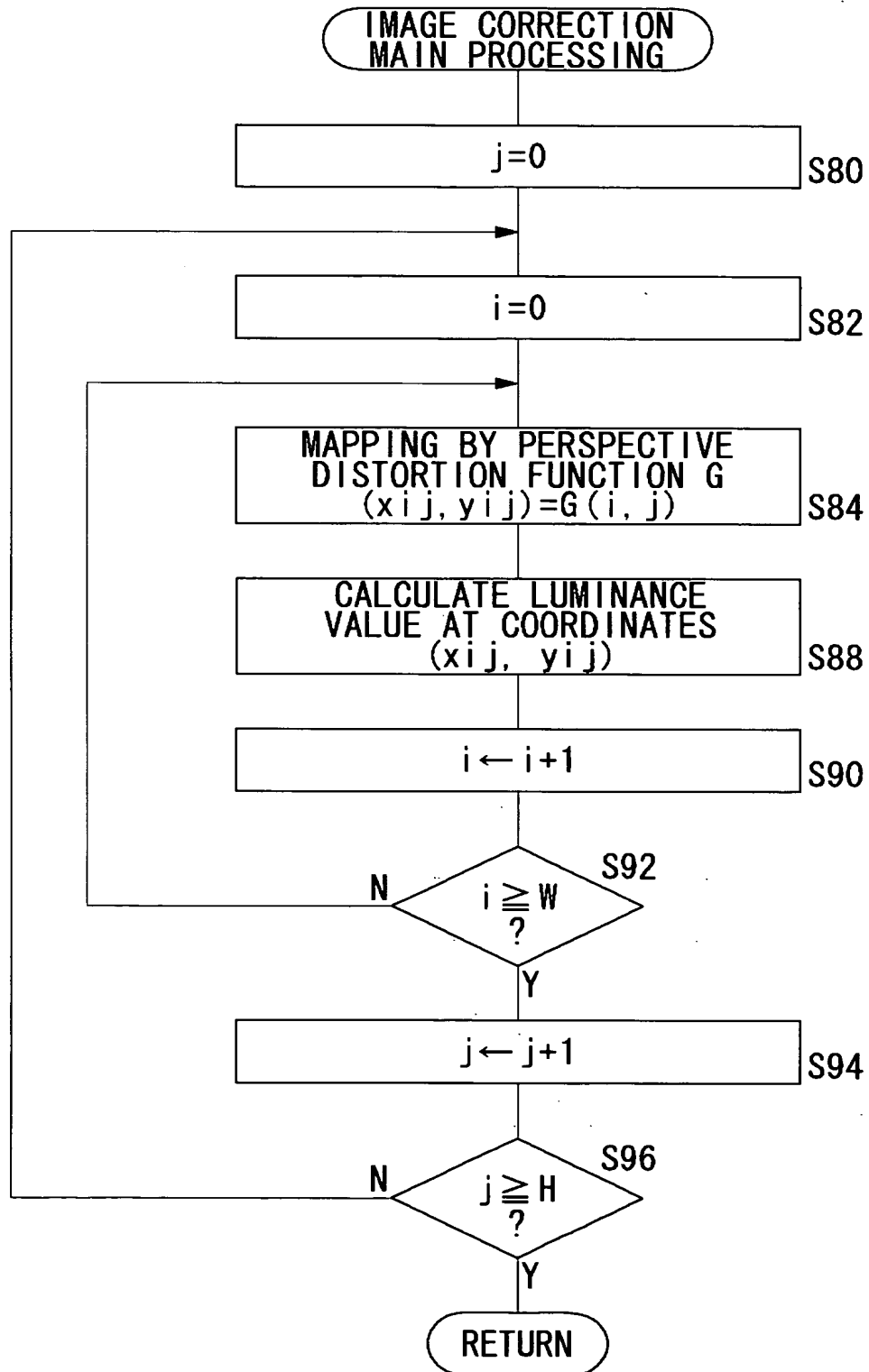
S38

FIG.32A

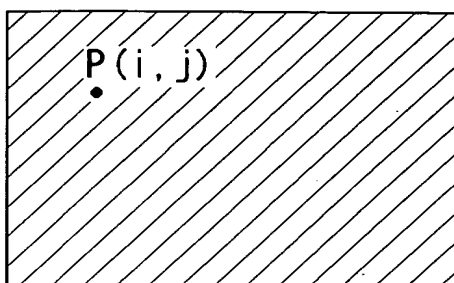
322

FIG.32B

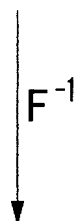
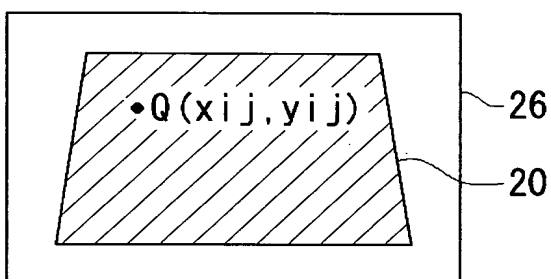
330

FIG.32C

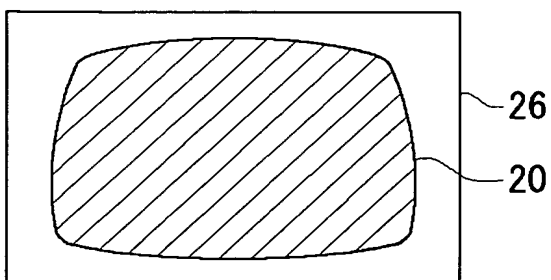
342

FIG.33

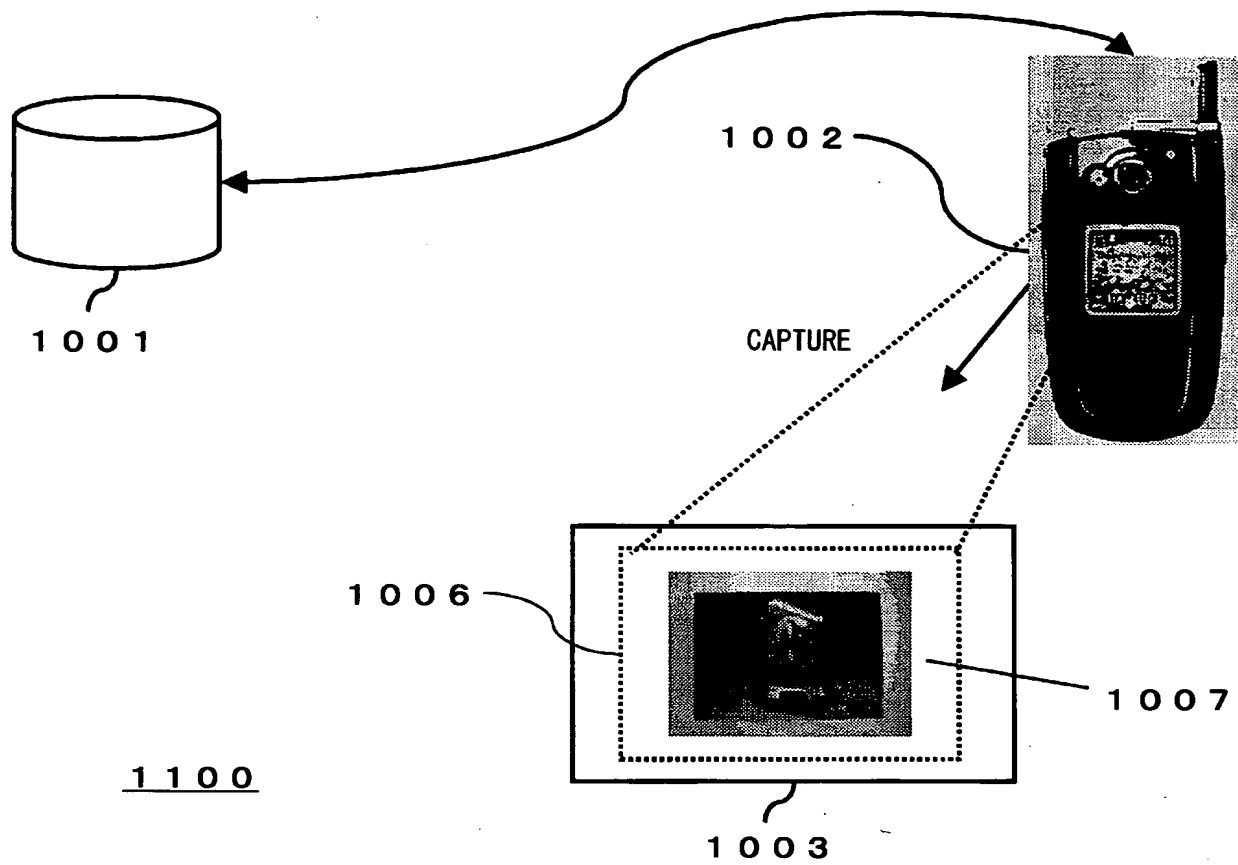


FIG.34

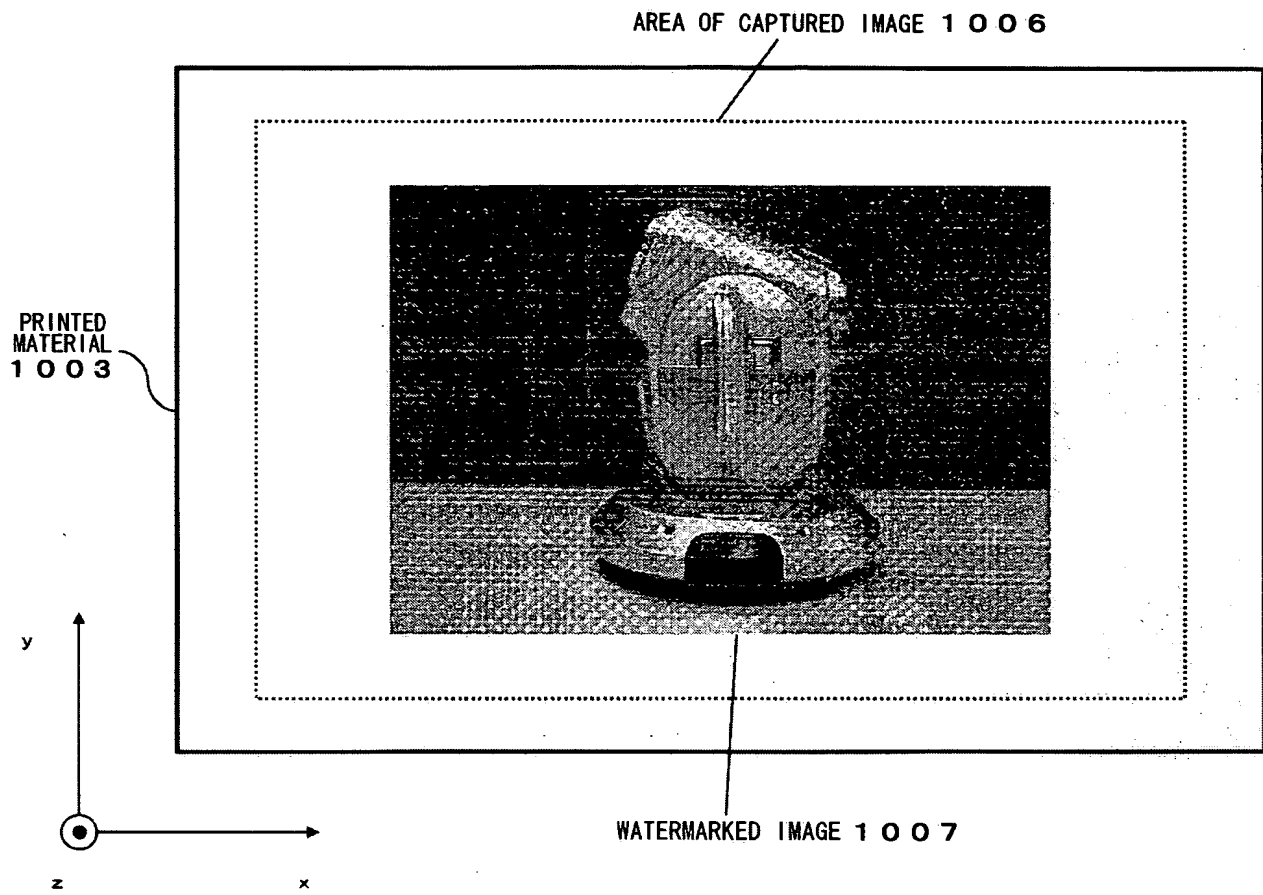
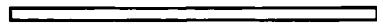
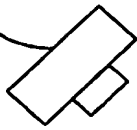


FIG.35A
1 0 0 2

CAPTURED FROM TOP LEFT



WATERMARKED IMAGE
1 0 0 7

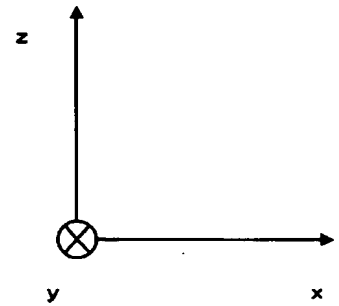
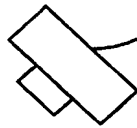
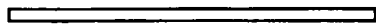


FIG.35B

CAPTURED FROM TOP RIGHT



1 0 0 2

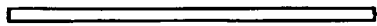


WATERMARKED IMAGE
1 0 0 7

FIG.35C

1 0 0 2

CAPTURED FROM DIRECTLY ABOVE



WATERMARKED IMAGE
1 0 0 7

FIG.36

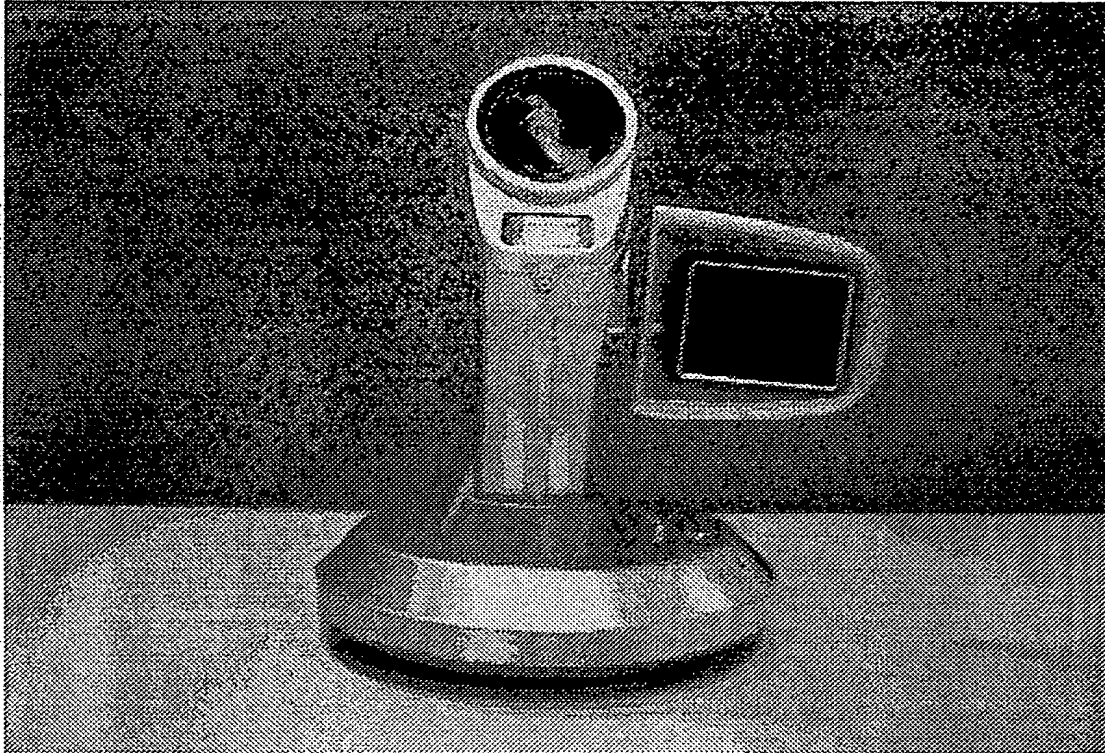


FIG.37

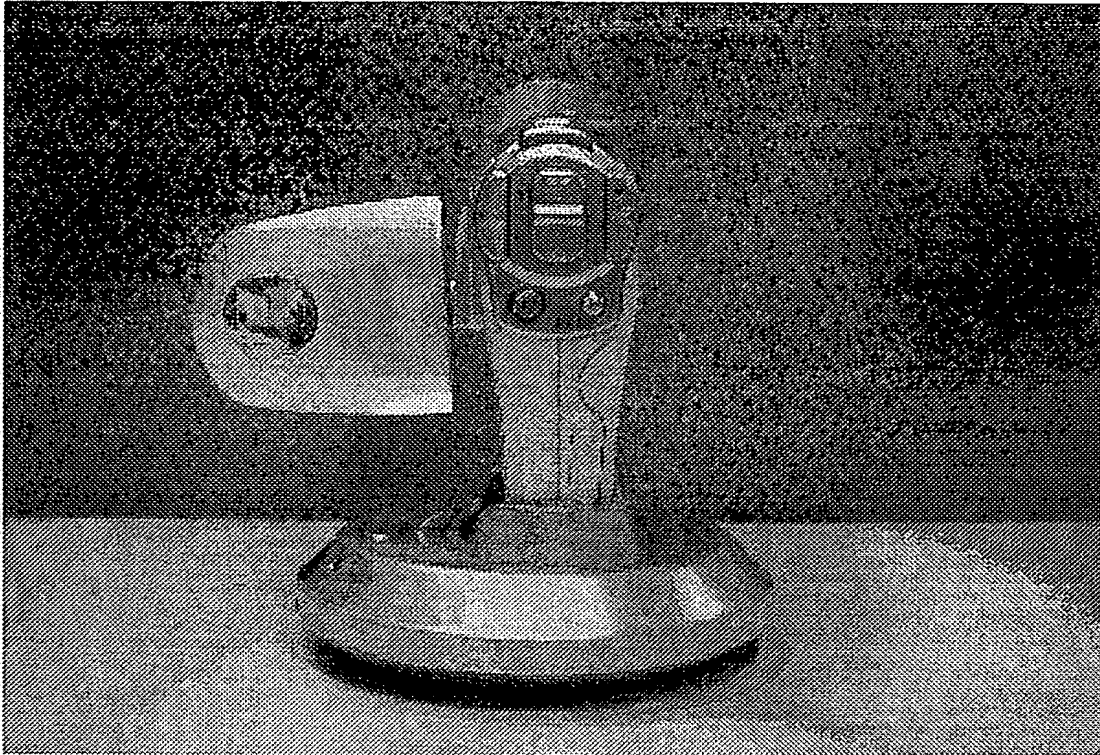


FIG.38

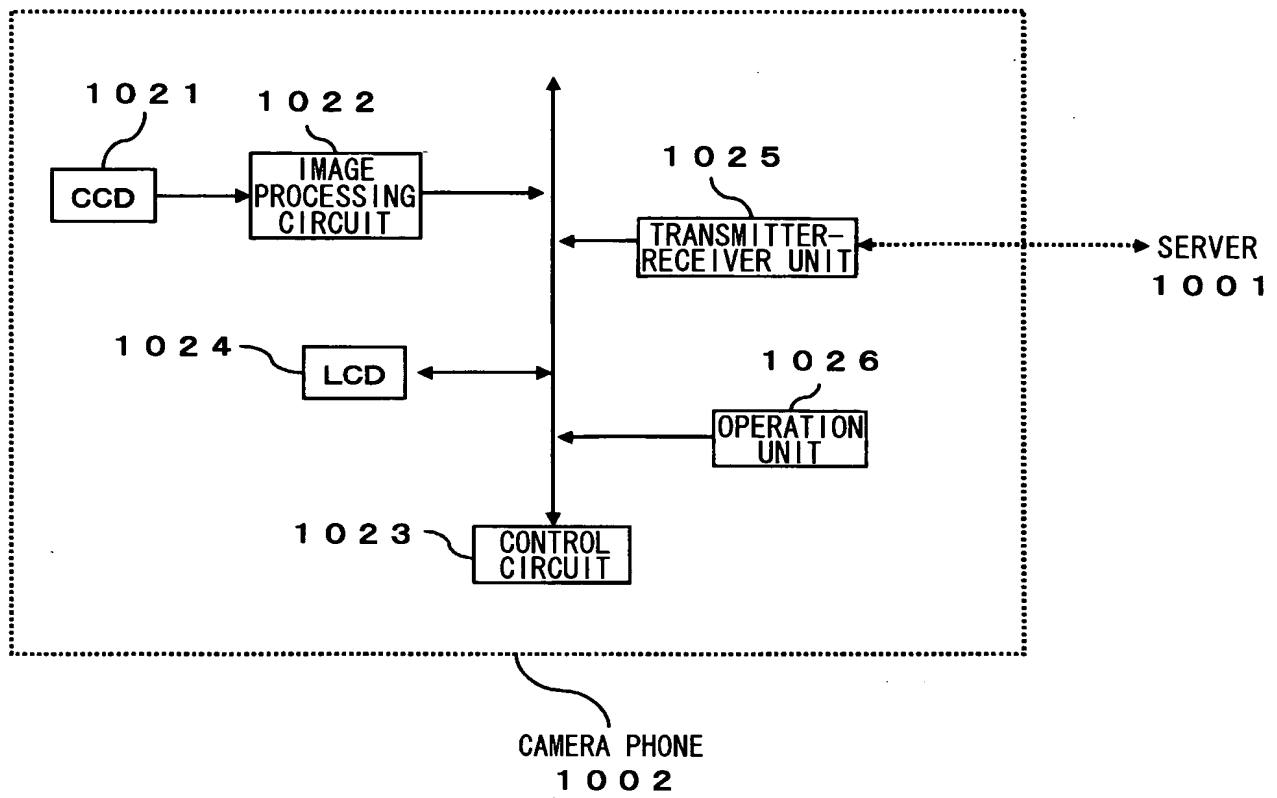


FIG.39

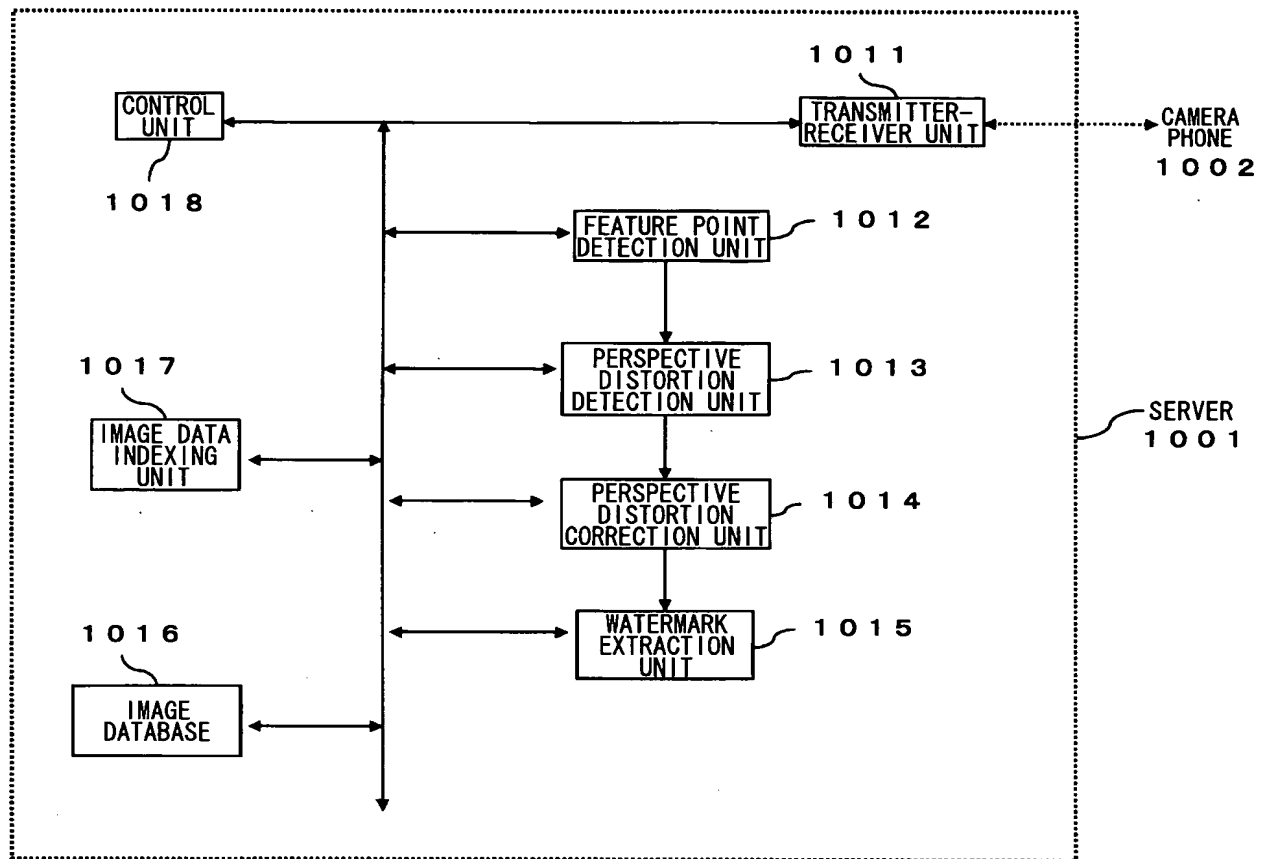


FIG.40

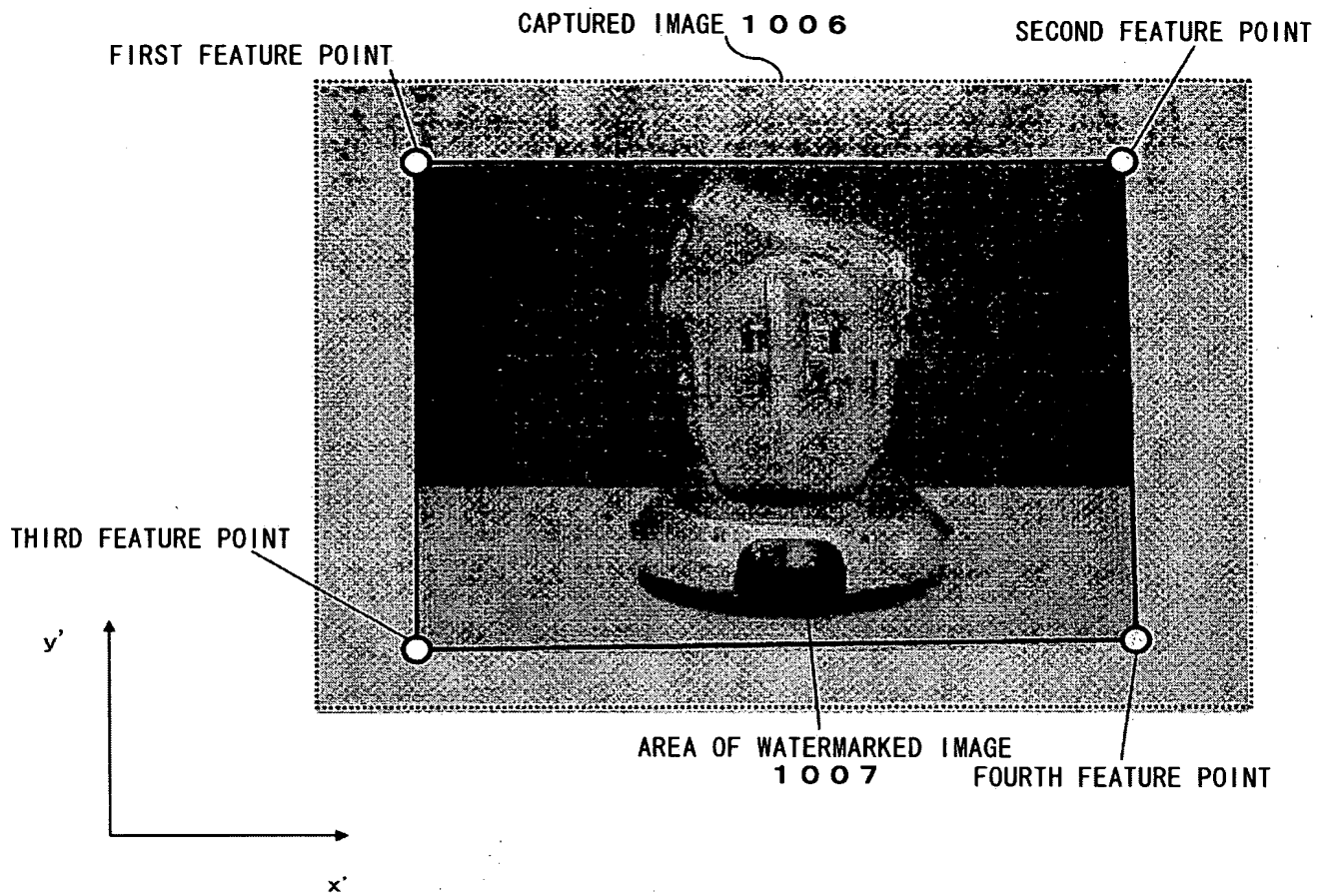


FIG.41

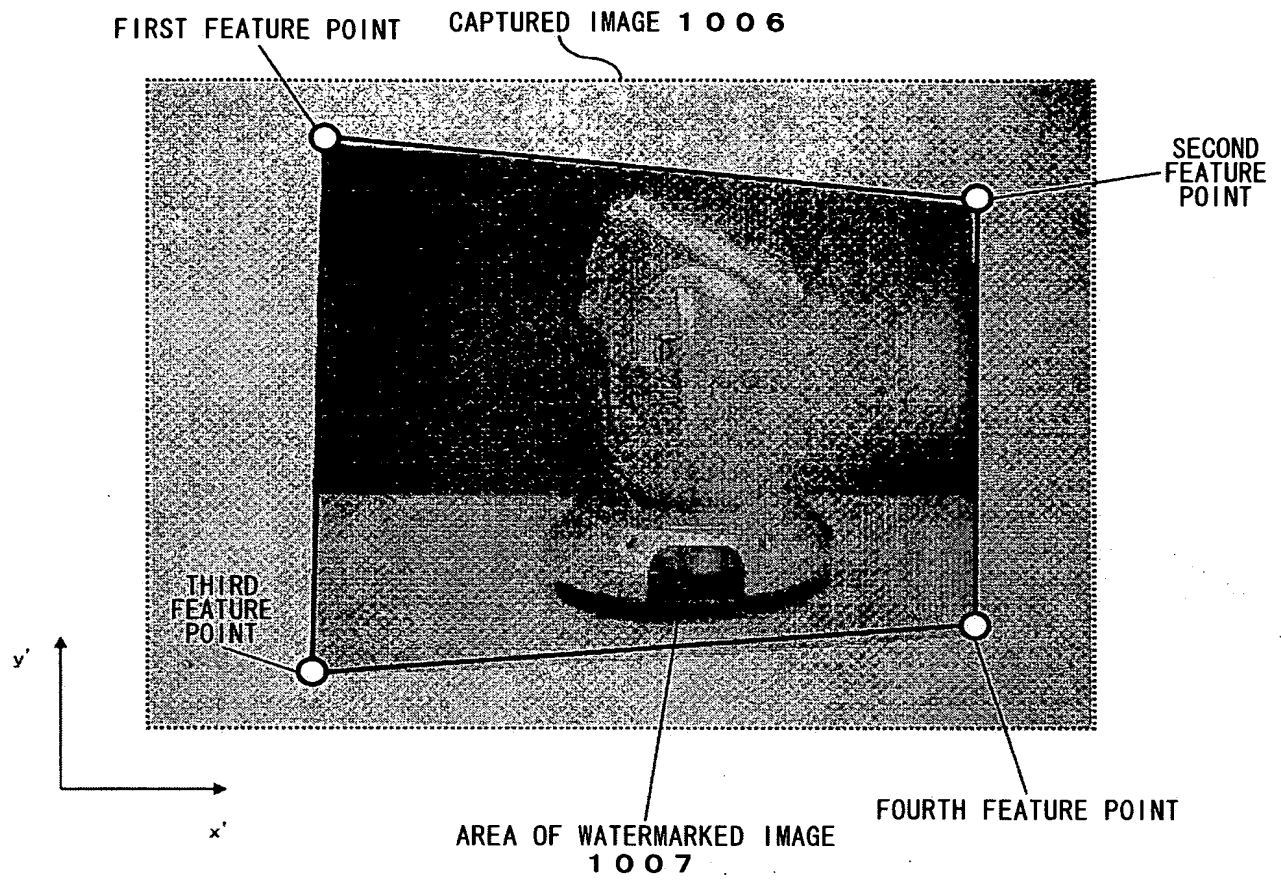


FIG.42

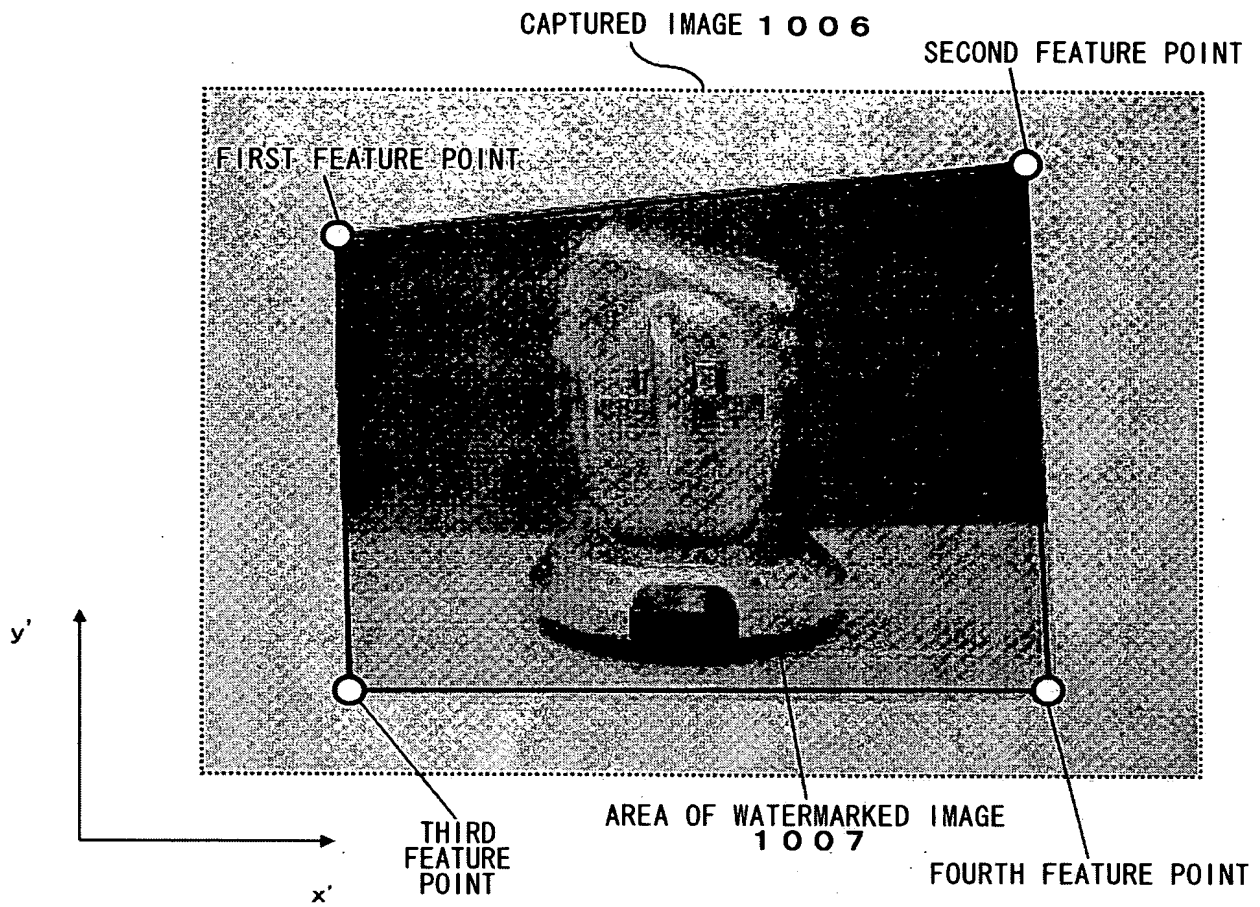


FIG.43

IMAGE DATA INDEXING UNIT 1 0 1 7

PRODUCT ID	PERSPECTIVE DISTORTION INFORMATION	CONTENTS OF IMAGE DATA	TOP ADDRESS OF IMAGE DATA
0001	1	DETAILED FRONT VIEW OF PRODUCT A	100
0001	2	DETAILED BACK VIEW OF PRODUCT A	200
0001	0	DETAILED SIDE VIEW OF PRODUCT A	300
0002	1	DETAILED FRONT VIEW OF PRODUCT B	700
.....	
0026	2	DETAILED BACK VIEW OF PRODUCT Z	1400

FIG.44

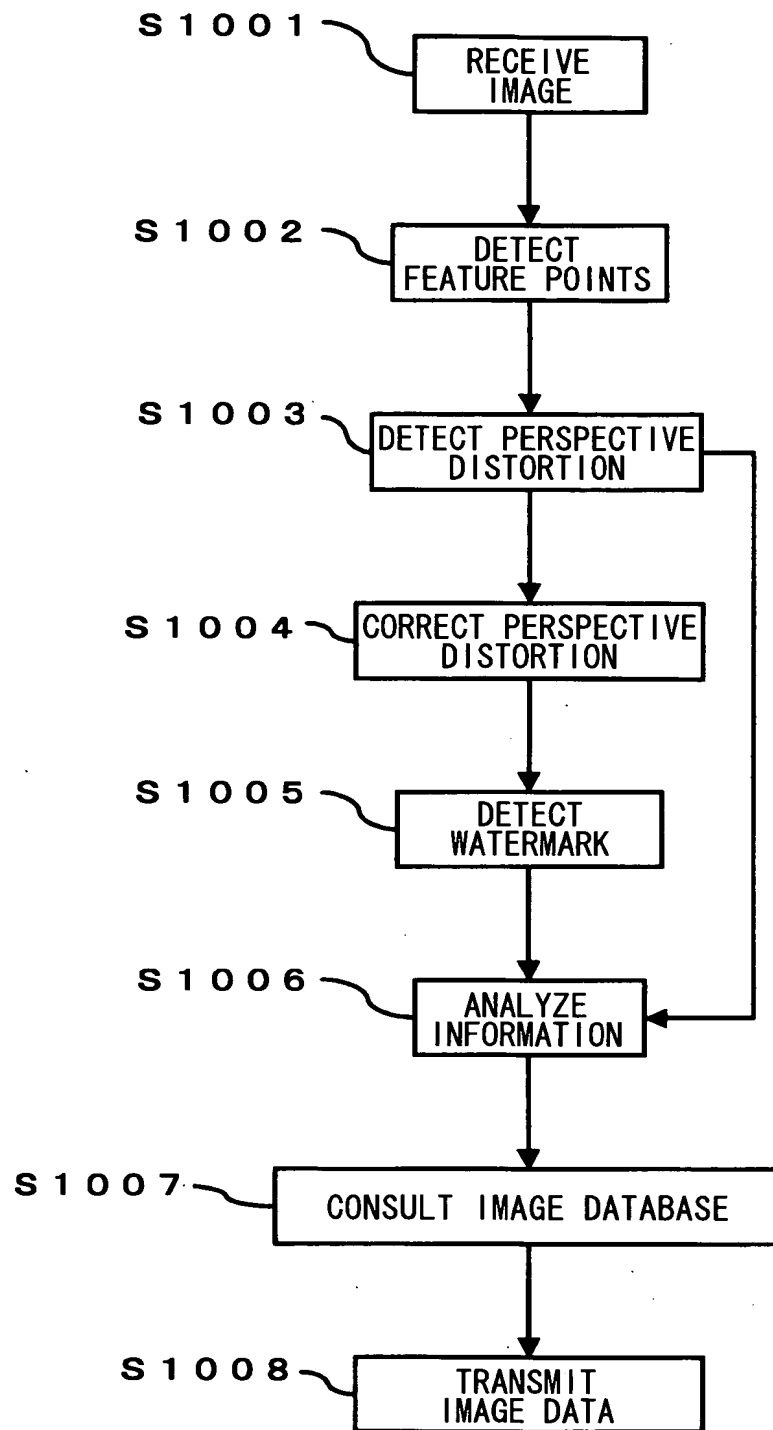


FIG.45A

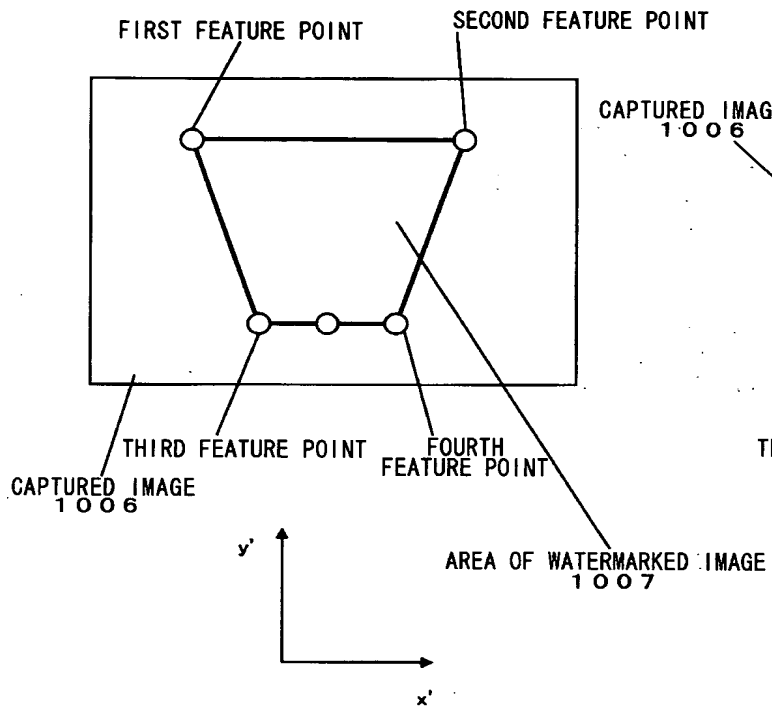


FIG.45B

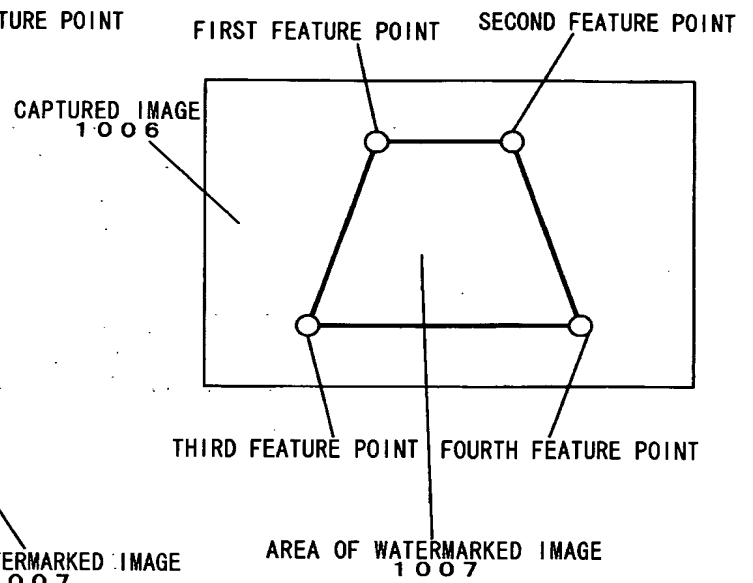


FIG.46

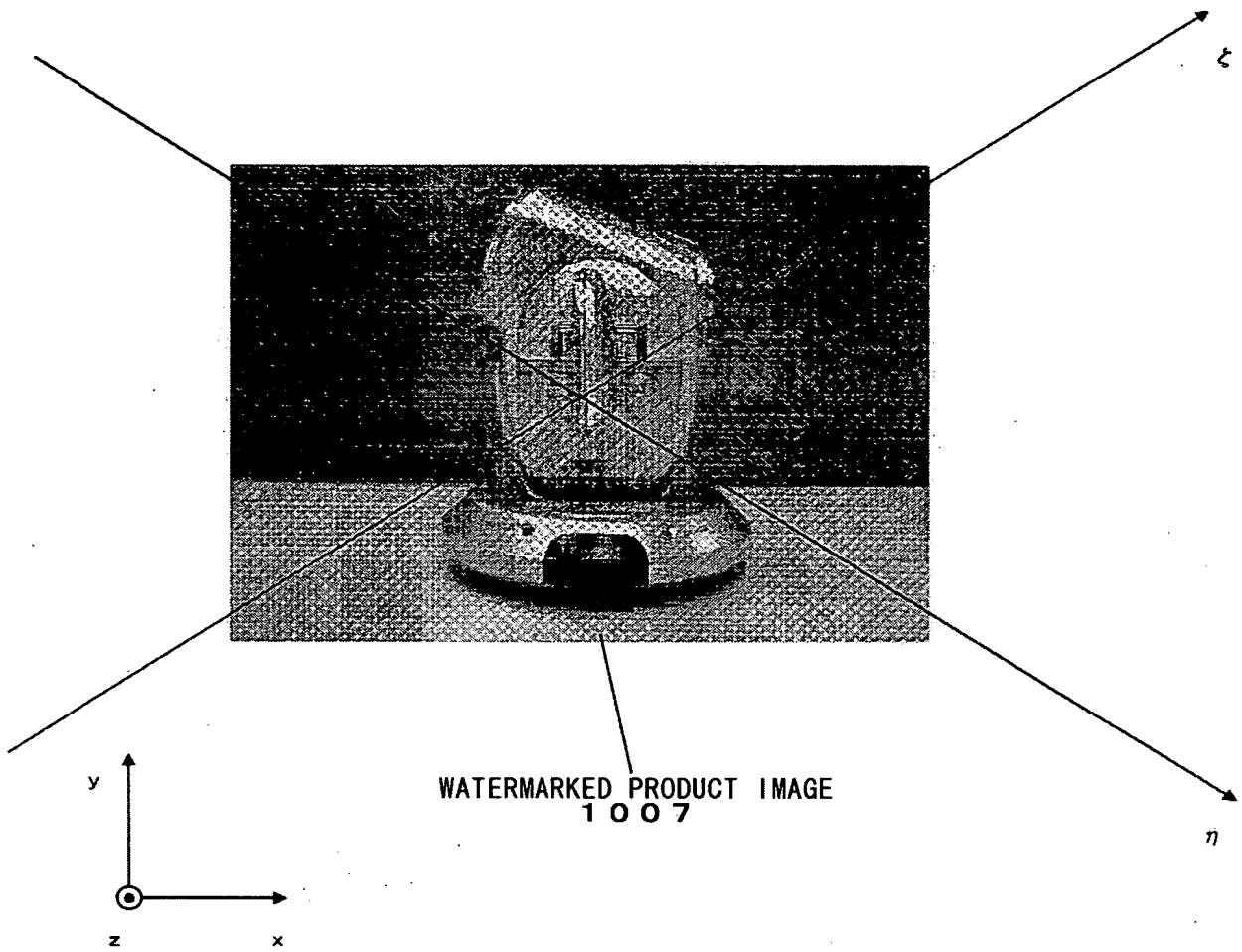


FIG.47

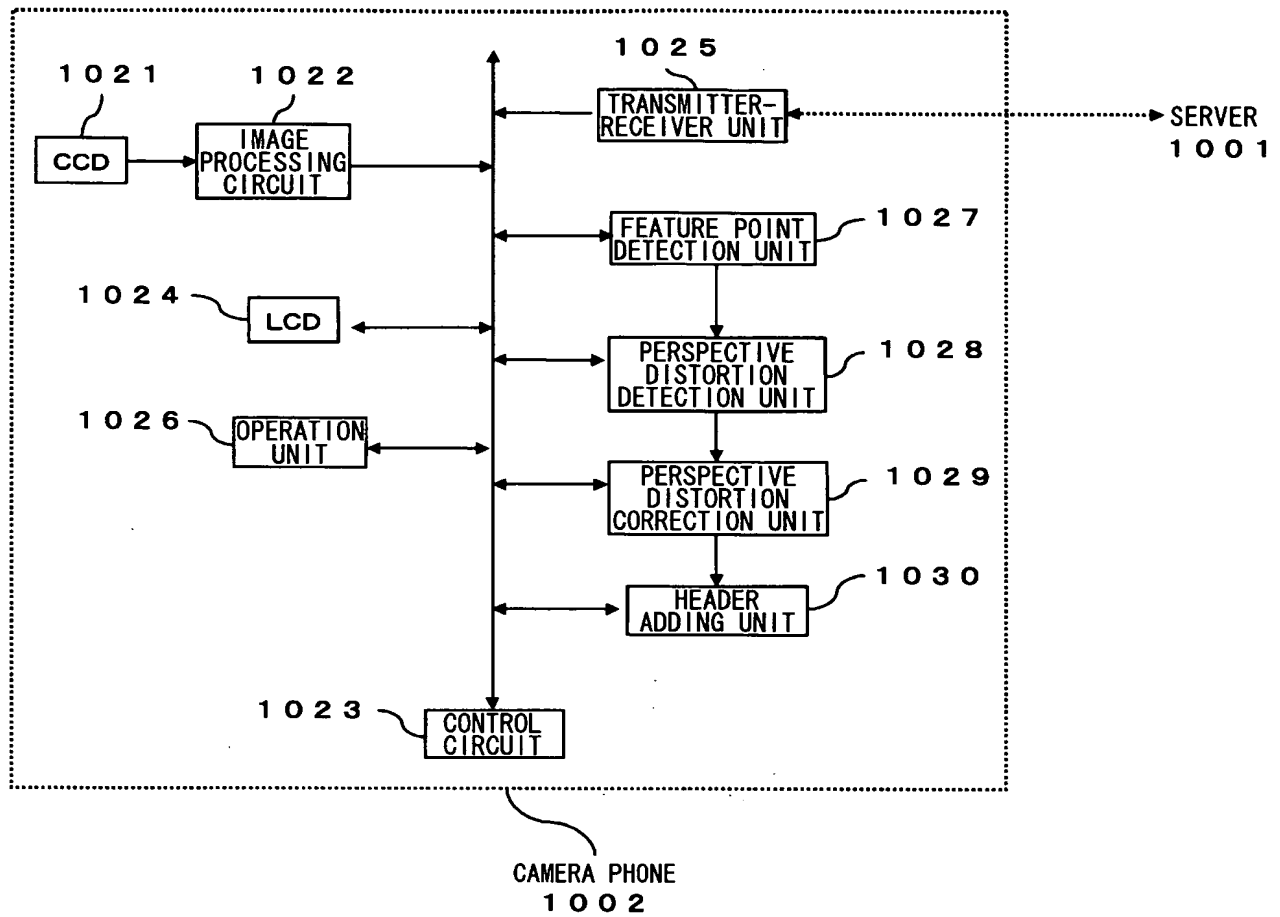


FIG. 48

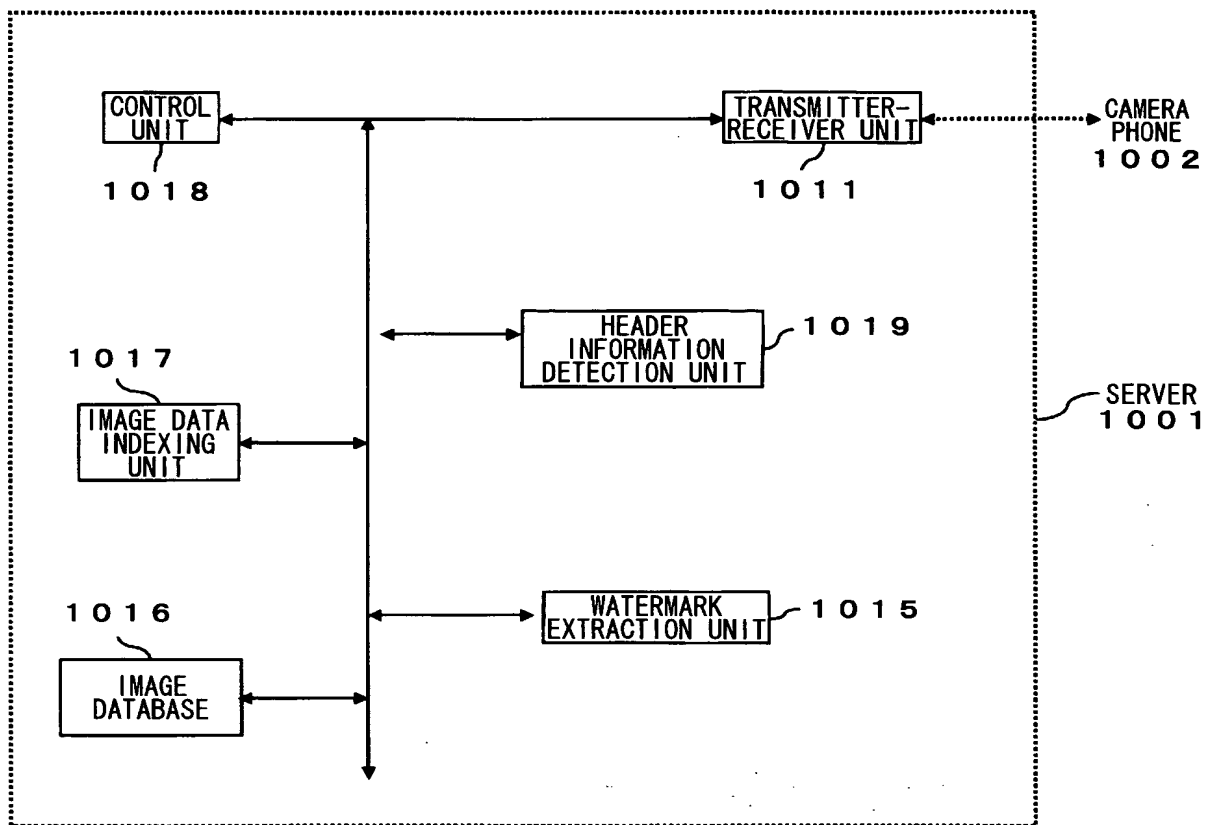


FIG.49

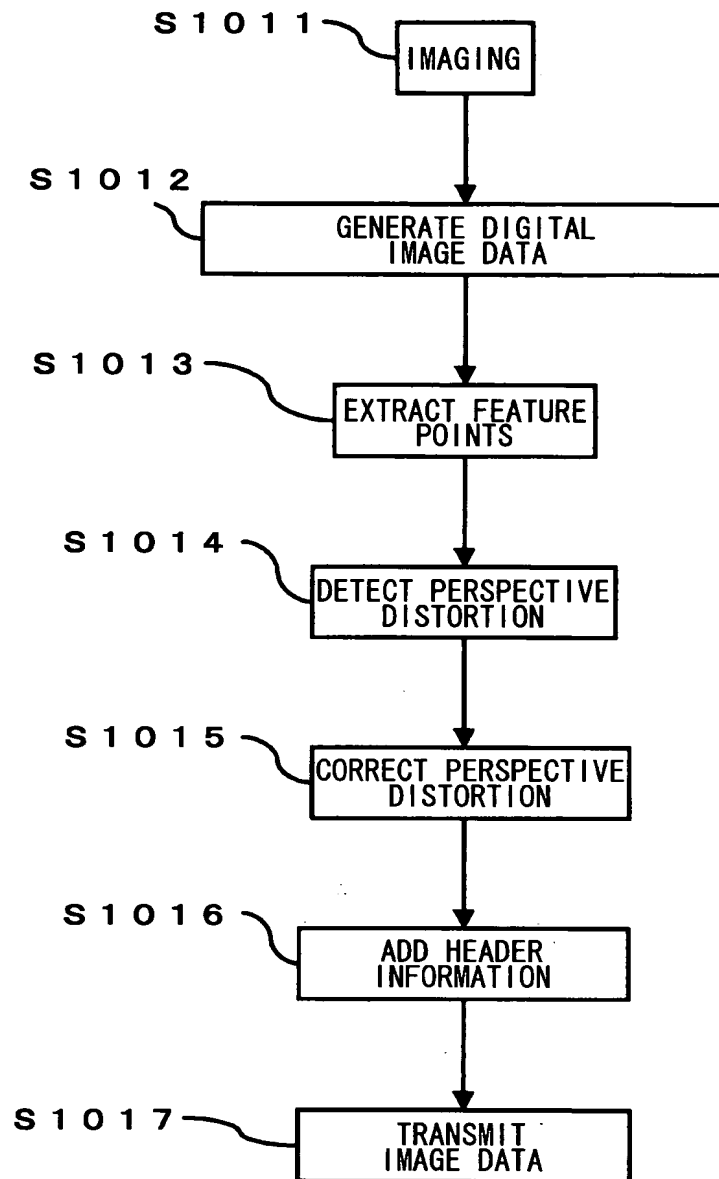


FIG.50

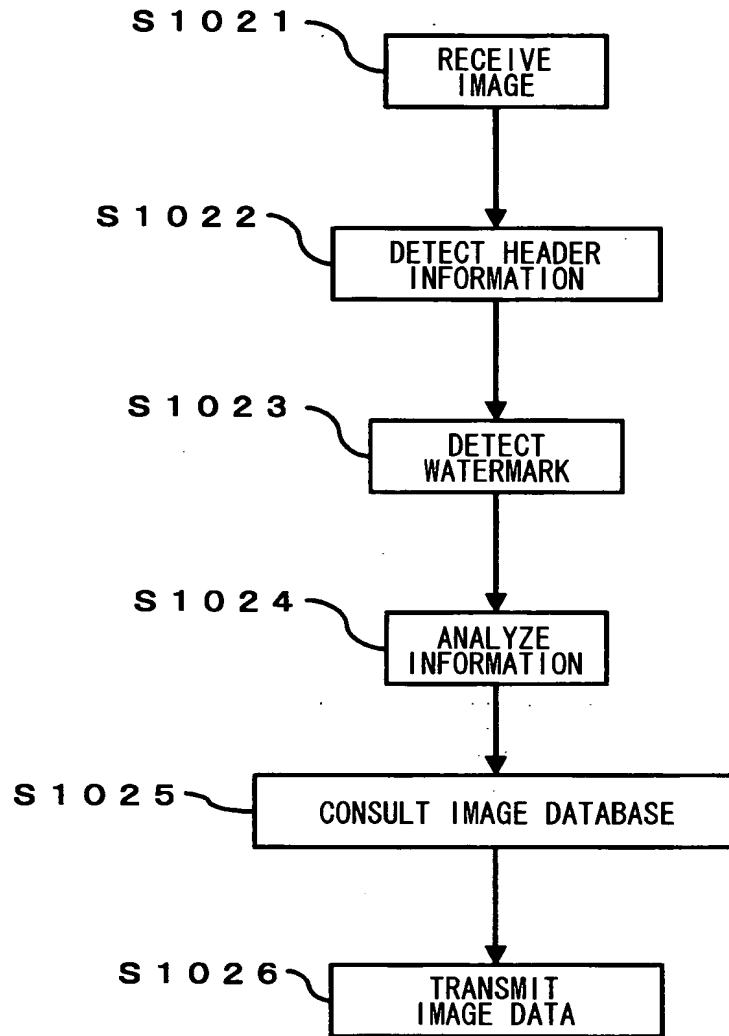


FIG. 51

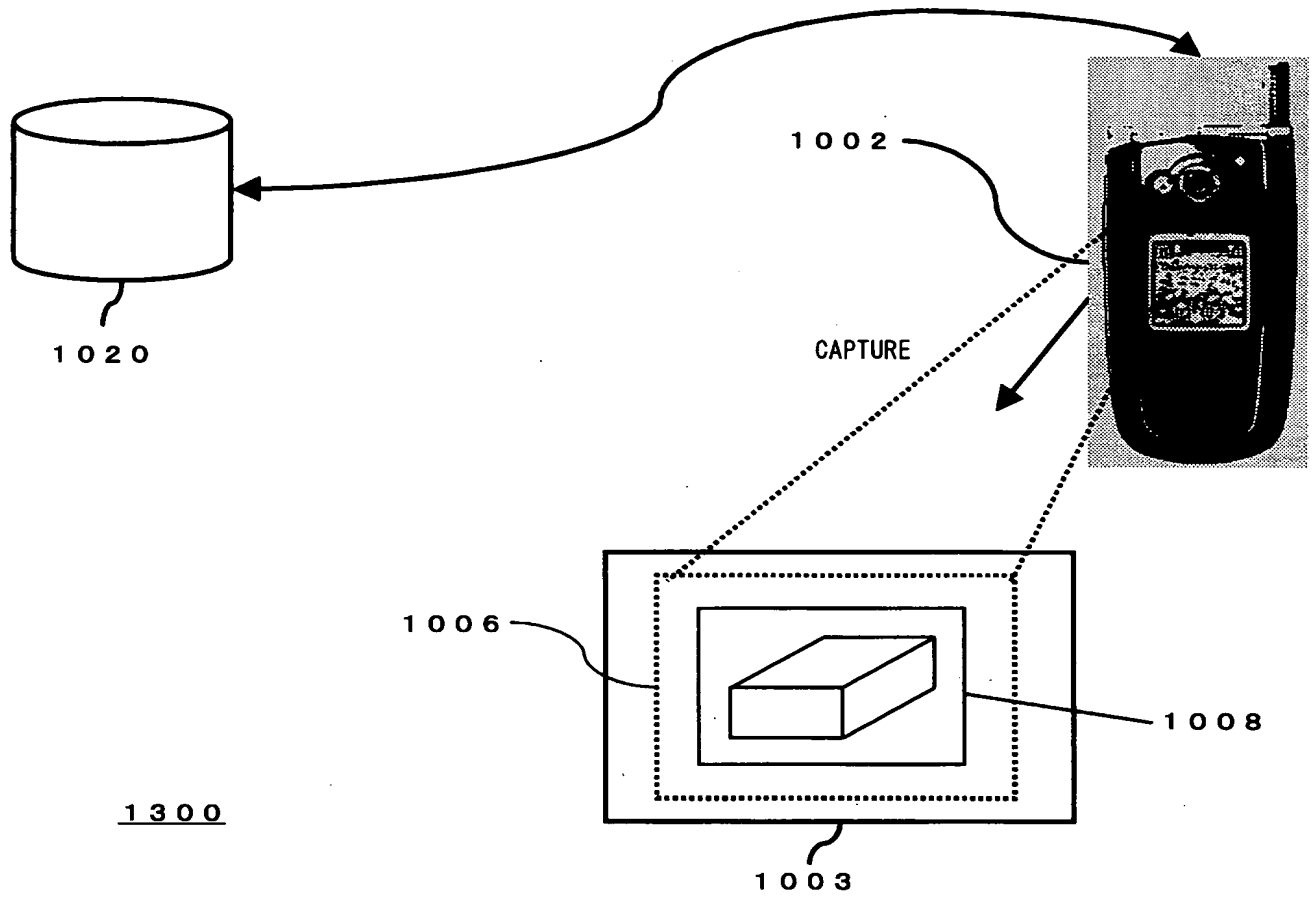


FIG.52

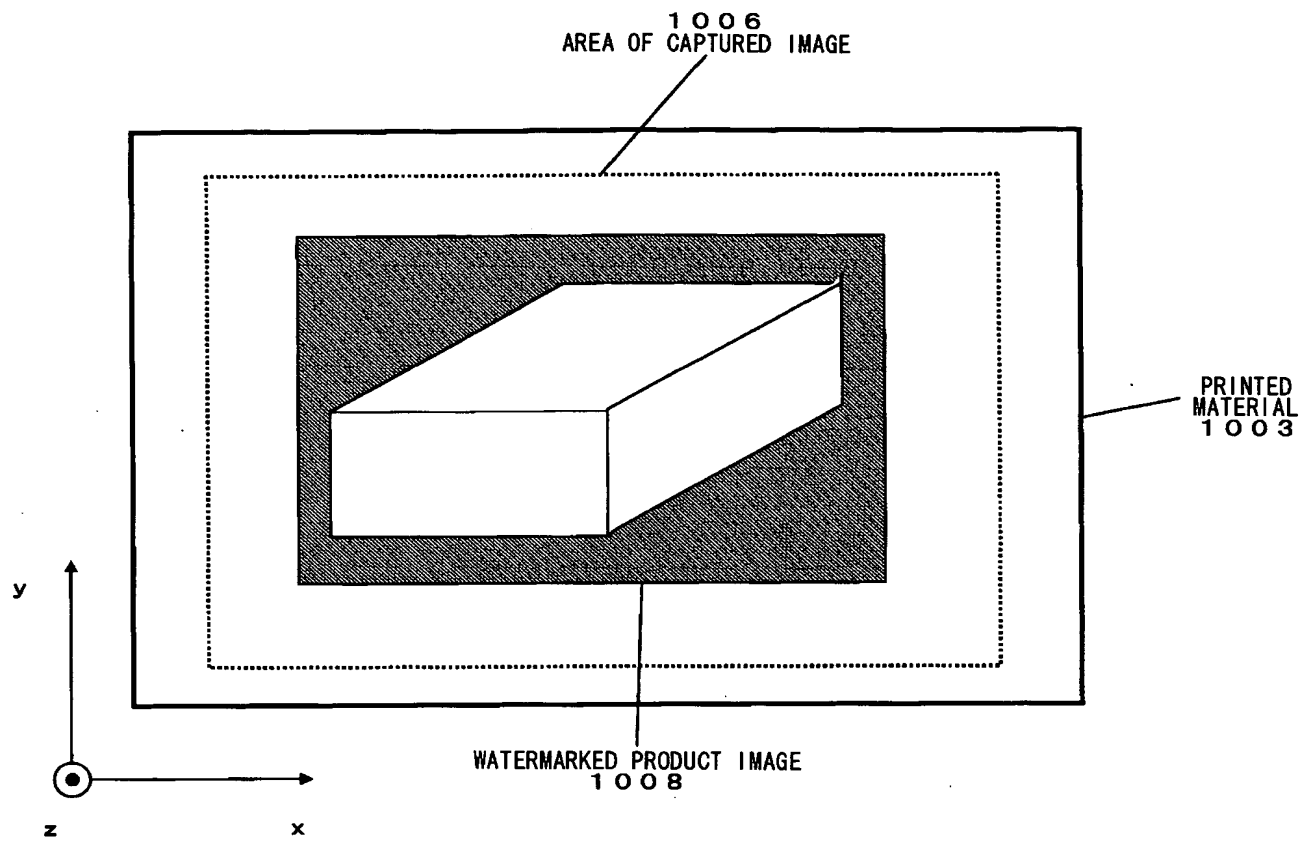


FIG.53

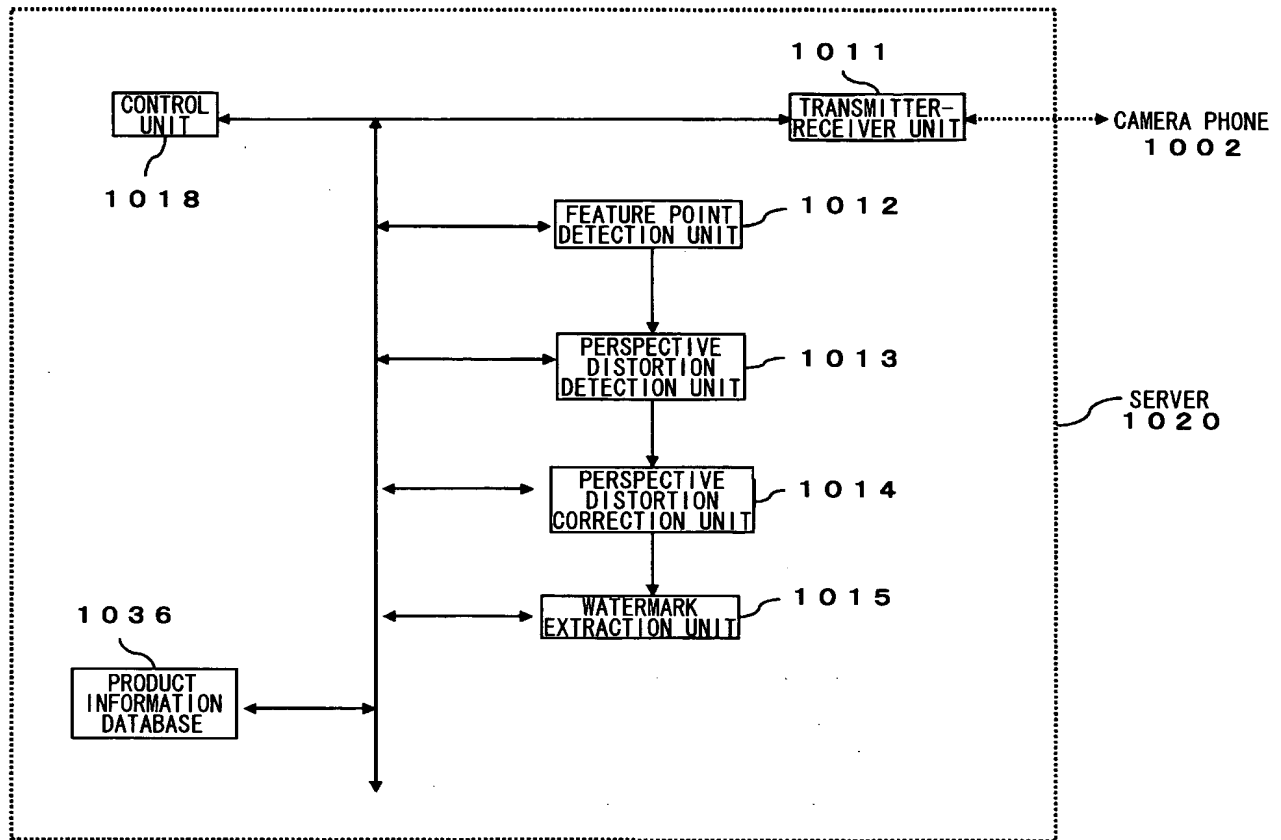
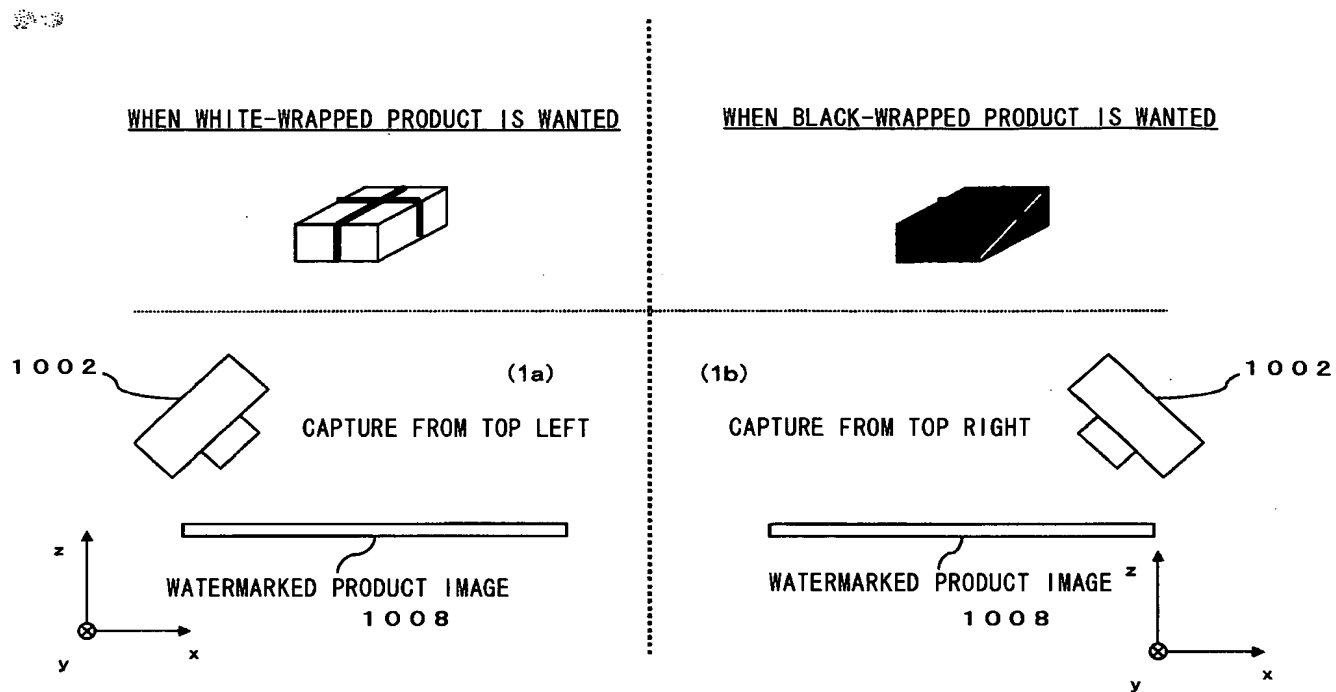


FIG.54

PRODUCT DATABASE 1 0 3 6

PRODUCT ID	PERSPECTIVE DISTORTION INFORMATION	USER-REQUESTED PRODUCT AND WRAPPING
1001	1	PRODUCT A, WHITE WRAPPING
1001	2	PRODUCT A, BLACK WRAPPING
1001	0	PRODUCT A, NO WRAPPING
1002	1	PRODUCT B, BLUE WRAPPING
.....

FIG.55



(2) TRANSMIT IMAGE TO SERVER → (3) SERVER DETECTS DIRECTION OF DISTORTION AND PRODUCT ID
 → (4) DETERMINE PRODUCT TO DELIVER FROM PRODUCT ID, DETERMINE COLOR OF WRAPPING PAPER FROM DIRECTION OF DISTORTION

FIG. 56A

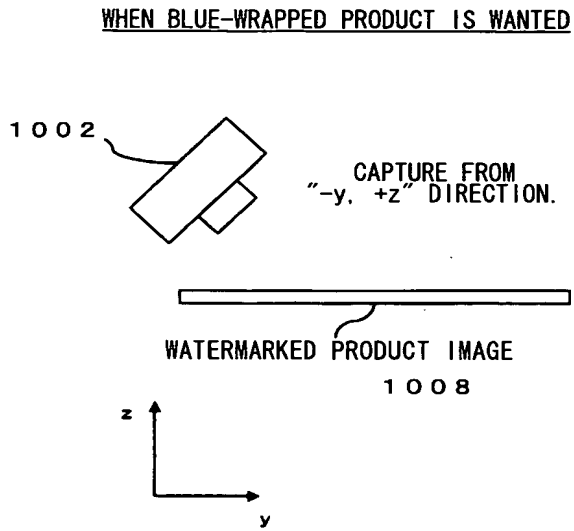


FIG. 56B

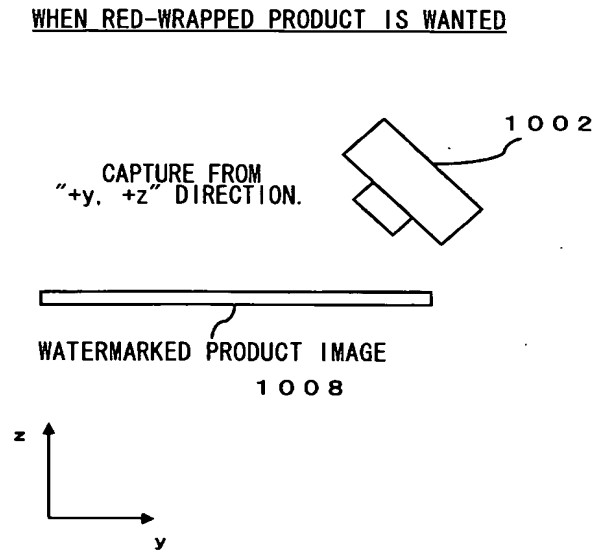


FIG. 57

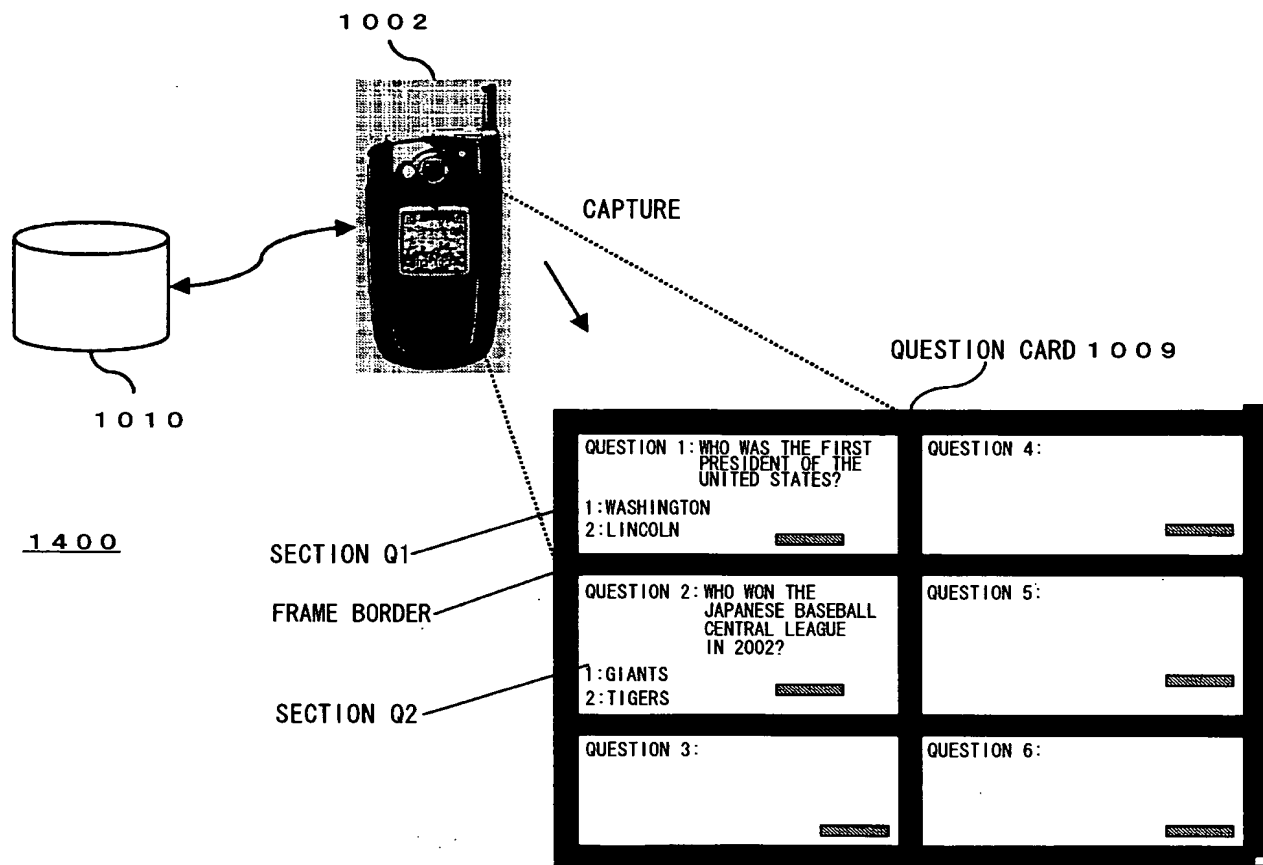


FIG.58A

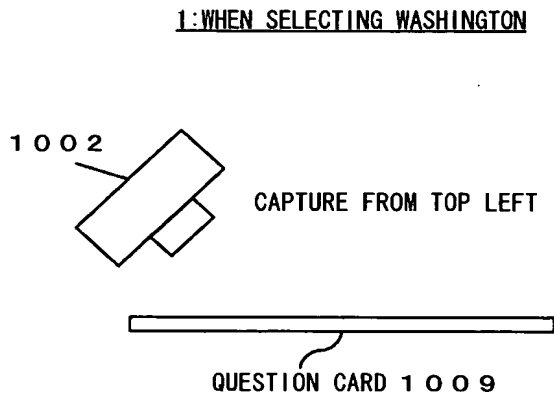


FIG.58B

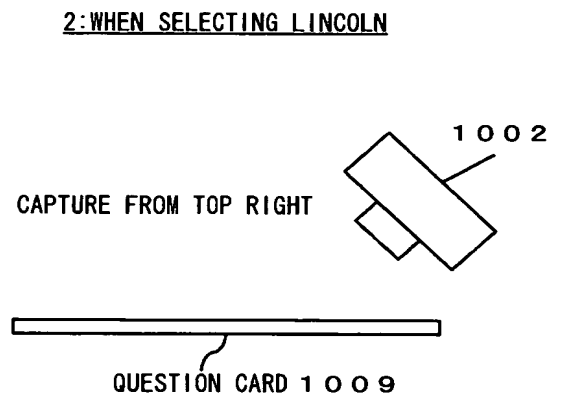
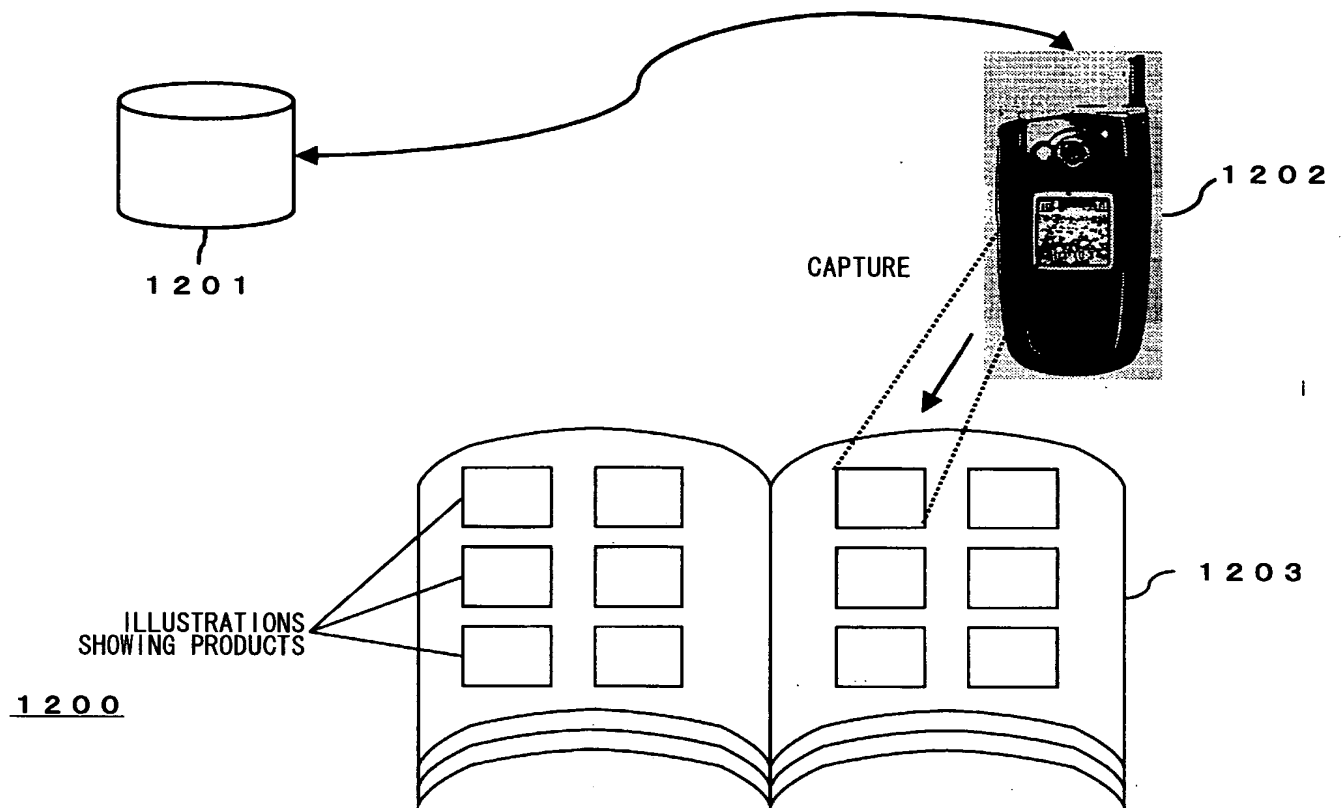


FIG.59



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